ORIGINAL

IN THE UNITED STATES COURT OF FEDERAL CLAIMS

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U.S. COURT OF FEDERAL CLAIMS

LARRY GOLDEN,

Plaintiff,

V.

UNITED STATES,

Defendant.

1:13-cv-307-SGB

Judge Susan G. Braden

March 22, 2017

By leave of the Judge

MOTION TO SUPPLEMENT PLAINTIFF'S CLAIM CHART

Pursuant to the Court's February 3, 2017 Order (Dkt. No. 100) ("dismissing Plaintiff's motions without prejudice to being renewed"), the Plaintiff, Larry Golden is providing the Court of Federal Claims ("COFC"), with its renewed "Motion for Entry of Devices Supplied to the Government" (Dkt. No. 82)

After the Plaintiff filed the "Plaintiff's Amended Complaint" (Dkt. No. 68) and after the Plaintiff filed the "Motion for Entry of Devices Supplied to the Government" (Dkt. No. 82), the Defendant (Government) introduced into record in its "Motion to Dismiss Pursuant to Rules 12(b)(1) and (6)" (Dkt. No. 88; Exhibits 1-4, 6-8, and 13) new evidence of devices the Plaintiff believes infringes his patented invention(s). The devices are relevant to this case.

According to Federal Rules of Civil Procedure; Title III. Pleading and Motions; Rule 15(d) Supplemental Pleadings: On motion and reasonable notice, the court may, on just terms, permit a party to serve a supplemental pleading setting out any transaction, occurrence, or event that happened after the date of the pleading to be supplemented. The court may permit

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supplementation even though the original pleading is defective in stating a claim or defense. The court may order that the opposing party plead to the supplemental pleading within a specified time.

Respectfully submitted,

LARRY GOLDEN

Plaintiff

CERTIFICATE OF SERVICE

I hereby certify that a true copy of the foregoing "Motion to Supplement Plaintiff's Claim Chart" was sent on March 22, 2017 via U.S. Postal Service "Priority Express Mail", to:

NICHOLAS J. KIM
Trial Attorney
Commercial Litigation Branch
Civil Division
Department of Justice

Washington, DC 20530

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NATIONAL SCIENCE FOUNDATION (NSF) / APPLE / SAMSUNG CHART OUTLINE: LARRY GOLDEN vs. THE UNITED STATES (CASE NUMBER: 13-307 C)

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ige 21 "Multimode Smartphone Biosensor" Patent #: 9,589,439; Independent Claim 19	26 EAGER: Lab-in-a-Smartphone Claim 19	age 31 PFI-BIC "Pathtracker: Smartphone-based for Mobile Infectious Disease Clai	age 36 I-Corps: Ultra-Sensitive Lateral Flow Patent #: 9,589, Reporters/Lab-on-Phone Platform Clai	Apple's iPhone / iPad Camera Biosensor for Facial Heart Rate Monitor Claim
89,439; Independent	89,439; Independent	Patent#: 9,589,439; Independent	Patent #: 9,589,439; Independent Claim 19	Patent #: 9,096,189; Independent
Claim 19	Claim 19	Claim 19		Claim 1
Patent #: RE 43,990; Dependent	Patent #: RE 43,990; Dependent	Patent #: RE 43,990; Dependent	Patent #: RE 43,990; Dependent	Patent #: RE 43,990; Dependent
Claims 118, 92, 25, 12, 124, 99	Claims 118, 92, 25, 12, 124, 99	Claims 118, 92, 25, 12, 124, 99	Claims 118, 92, 25, 12, 124, 99	Claims 30, 99, 118, 12, 28, 25, 20, 32

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Apple's iPhone 5, 5c, 5s, 6, 6 Plus and the iPad interconnected to the Apple Watch	Patent #: 9,096,189; Independent Claim 1	Patent #: RE 43,990; Dependent Claims 25, 95, 99, 12, 28, 20, 32, 30
Page 52		
Apple's iPhone / iPad (monitoring equipment); Apple Watch (detection device); interconnected to the August Smart Lock (locking device)	Patent #: 9,096,189; Independent Claim 1	Patent #: RE 43,990; Dependent Claims 22, 46, 80, 12, 28, 25, 20, 32, 30
Page 58		
Apple's iPhone / iPad (monitoring equipment); Apple's HomeKit (interface / gateway); August Connect (interface / gateway); interconnected to the August Smart Lock (locking device)	Patent #: 9,096,189; Independent Claim 1	Patent #: RE 43,990; Dependent Claims 22, 46, 80, 12, 28, 25, 20, 32, 30
Page 64		
Apple's iPhone / iPad (monitoring equipment); Apple Watch (detection device); interconnected to Ford's MvFord Mobile App (locking device)	Patent #: 9,096,189; Independent Claim 1	Patent #: RE 43,990; Dependent Claims 22, 46, 80, 12, 28, 25, 20, 32, 30

Patent #: 9,096,189; Independent Claim 1	Page 70		
ng Galaxy s6 interconnected to amsung Gear S2 Smartwatch" Origin 1 Claim 1 Claim 1 Patent #: 9,096,189; Independent connected to the "Yale Assure Lock" (locking device) ng Galaxy s6 (smartphone) and amsung SmartThings Hub" ansung Galaxy s6 (smartphone) and amsung Lock (locking device) ng Galaxy s6 (smartphone) and amsung Galaxy s6 (smart	Samsung Galaxy s6 "Fingertip Heart Rate Monitor"	Patent #: 9,096,189; Independent Claim 1	Patent #: RE 43,990; Dependent Claims 30, 118, 12, 28, 25, 20, 32
ng Galaxy s6 interconnected to amsung Gear S2 Smartwatch" Claim 1	Page 76		
ng Galaxy s6 (smartphone) and connected to the "Yale Assure Lock" (locking device) ng Galaxy s6 (smartphone) and amsung SmartThings Hub" are gateway) interconnected to le Assure Lock (locking device) ng Galaxy s6 (smartphone) and ng Galaxy s6	ng Galaxy s6 interconnected samsung Gear S2 Smartwatch	Patent #: 9,096,189; Independent Claim 1	Patent #: RE 43,990; Dependent Claims 25, 95, 99, 12, 28, 20, 32, 30
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ng Galaxy s6 (smartphone) and amsung SmartThings Hub" Ace-gateway) interconnected to le Assure Lock (locking device) ng Galaxy s6 (smartphone) and and better #: 0.006,180. Independent	Samsung Galaxy s6 (smartphone) and Samsung Gear S2 (smartwatch) interconnected to the "Yale Assure Lock" (locking device)	Patent #: 9,096,189; Independent Claim 1	Patent #: RE 43,990; Dependent Claims 22, 46, 80, 12, 28, 25, 20, 32, 30
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ng Galaxy s6 (smartphone) and Dottert #1.0,006,180, Tudonordout	Samsung Galaxy s6 (smartphone) and "Samsung SmartThings Hub" (interface-gateway) interconnected to the Yale Assure Lock (locking device)	Patent #: 9,096,189; Independent Claim 1	Patent #: RE 43,990; Dependent Claims 22, 46, 80, 12, 28, 25, 20, 32, 30
Detail #: 0.006.180. Independent	Page 94		
Claim I	Samsung Galaxy s6 (smartphone) and Samsung Gear S2 (smartwatch) interconnected to the "Volkswagen Cor Not o Domote" (hooling desico)	Patent #: 9,096,189; Independent Claim 1	Patent #: RE 43,990; Dependent Claims 22, 46, 80, 12, 28, 25, 20, 32, 30

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Patent #: RE 43,990; Dependent Claims	118. The multi-sensor detection system [of claim 103] wherein the cell phone, the smart phone, and the cell phone detector case have a plurality of sensors for detecting at least one of a chemical, biological, radiological, nuclear, explosive and contraband agents and compounds which are capable of being disposed within the cell phone, the smart phone, or the cell phone detector case.
Patent #: 9,589,439; Independent Claim 19	A multi-sensor detection system for detecting at least one explosive, nuclear, contraband, chemical, biological, human, radiological agent, or compound, comprising:
EAGER: Mobile-Phone Based Single Molecule Imaging for DNA	The National Science Foundation awards a grant of \$299,995 to University of California, Los Angeles This project, entitled "EAGER: Mobile-phone based single molecule imaging of DNA to analyze copynumber variations in genome," is under the direction of Aydogan Ozcan This award starts October 1, 2014 and ends September 30, 2016 Award:1444240 PI Name: Ozcan, Aydogan Award Date: June 13, 2014 a transformative fluorescent microscopy system that is integrated onto a mobile-phone for imaging of single DNA molecules field-portable imagine interface running on a smart-phone will initially utilize state-of-art mobile phones create roadmap for next generation mobile phones and other consumer electronics devices toward new imaging, sensing and diagnostics shaping the landscape of future mobile-health and telemedicine applications new landmarks for mobile-health and electronics devices for use in mobile-health and telemedicine.

This fluorescence microscope on a smart phone; designed by integrating a laser diode, a disposable nanochannel chip, an external lens and a thin-film based emission filter in a robust attachment created by 3D printing. Nervous system disorders or even drug resistance in infectious diseases, including early detection of cancer.	a plurality of sensors for detecting at least one chemical, biological, radiological, explosive, nuclear, human, or contraband agent or compound, capable of being disposed within, on, upon or adjacent a multi-sensor detection device;	claim 103] wherein the cell phone, the smart phone, and the cell phone detector case have a plurality of sensors for detecting at least one of a chemical, biological, radiological, nuclear, explosive and contraband agents and compounds which are capable of being disposed within the cell phone, the smart phone, or the cell phone detector case.
This fluorescence microscope on a smart phone; designed by integrating a laser diode, a disposable nanochannel chip, an external lens and a thin-film based emission filter in a robust attachment created by 3D printing. Nervous system disorders or even drug resistance in infectious diseases, including early detection of cancer.	This fluorescence microscope on a smart phone; designed by integrating a laser diode, a disposable nanochannel chip, an external lens and a thin-film based emission filter in a robust attachment created by 3D printing. Nervous system disorders or even drug resistance in infectious diseases, including equipment comprising at least one of a computer, personal computer (PC), personal digital assistant (PDA) or smart phone for at least one of a receipt or transmission of signals therebetween; early detection of cancer.	118. The multi-sensor detection system [of claim 103] wherein the cell phone, the smart phone, and the cell phone detector case have a plurality of sensors for detecting at least one of a chemical, biological, radiological, nuclear, explosive and contraband agents and compounds which are capable of being disposed within the cell phone, the smart phone, or the cell phone detector case.
Cellular carriers have extremely precise GPS measurements of the locations of all their towers. With a database of such towers, you can take measurements of the signal strength of those within range—which may be dozens—and trilateration to find an area that overlaps among them. Apple uses AGPS for native GPS-lock improvements, and Wi-Fi network and cell tower locations are additional factors in providing a fast initial connection along with improving GPS accuracy.	at least one cell phone tower interconnected to the monitoring equipment for sending signals thereto and receiving signals therefrom or at least one satellite capable of transmitting signals to the monitoring equipment;	92. The multi-sensor detection system [of claim 81], further comprising a global positioning system (GPS) receiver adapted for communication with at least one satellite.

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25. The communication device [of claim 11] wherein the communication device has at least one of a Bluetooth connection, a Wi-Fi connection, a short and long range radio frequency connection, a Cellular connection, a satellite connection, and a GPS connection.	12. The communication device [of claim 11] wherein each communication device includes at least one of an internet connection, a GPS connection, a radio frequency (RF) connection, or a central processing unit (cpu).	92. The multi-sensor detection system [of claim 81], further comprising a global positioning system (GPS) receiver adapted for communication with at least one satellite.
at least one satellite or at least one cell phone tower capable of signal communication between the multi-sensor detection device and the monitoring equipment;	at least one internet connection capable of communication between the multi-sensor detection device and the monitoring equipment;	whereupon a signal sent to a receiver of the multi-sensor detection device from a satellite; or to a cell phone tower; or through at least one of a short range radio frequency or a long range radio frequency; causes a signal to be sent to the monitoring equipment that includes at least one of location data or sensor data;
Every iPhone and iPad ever made has both WiFi and Bluetooth, two wireless technologies for connecting to nearby devices (in the case of Bluetooth) and the internet (in the case of WiFi). The cellular service, originally called 3G and now called LTE; this option allows the iPone to connect to the internet anywhere cell phone works, to check emails.	Every iPhone and iPad ever made has both WiFi and Bluetooth, two wireless technologies for connecting to nearby devices (in the case of Bluetooth) and the internet (in the case of WiFi). The cellular service, originally called 3G and now called LTE; this option allows the iPone to connect to the internet anywhere cell phone works, to check emails.	Cellular carriers have precise GPS measurements of locations of all their towers. With a database of such towers, you can take measurements of the signal strength of those within range and trilateration to find an area that overlaps among them. Apple uses AGPS for native GPS-lock improvements, and Wi-Fi network and cell tower locations are additional factors in providing a fast connection along with improving GPS accuracy.

products to be monitored, the devices that are phone, and the cell phone detector case have

claim 103] wherein the cell phone, the smart

124. The multi-sensor detection system [of

into anti-terrorist product groupings based on

communication equipment can be grouped

monitoring, communication devices,

the categories of similarities of design of at

least one of: sensors, software, interfaces,

generation mobile phones and other consumer, disposable nanochannel chip, an external lens portable imagine interface running on a smartsystem that is integrated onto a mobile-phone for imaging of single DNA molecules...fieldtools...other consumer electronics devices for fluorescence microscope on a smart phone; use in mobile-health and telemedicine. This telemedicine applications...new landmarks resistance in infectious diseases, including robust attachment created by 3D printing. and a thin-film based emission filter in a mobile phones...create roadmap for next A transformative fluorescent microscopy electronics devices toward new imaging, designed by integrating a laser diode, a phone...will initially utilize state-of-art Nervous system disorders or even drug landscape of future mobile-health and sensing and diagnostics...shaping the for mobile imaging and diagnostic early detection of cancer.

grouping categories;

similarities in material composition of at least detector cases, locks, mobile communication devices, handheld communication devices...; radiological, nuclear, explosive compounds network of ubiquitous sensing and detecting and agents, detection for weapons of mass security problems of at least one of: theft, elements to form a whole; similarities in threat; grouping security devices to form one of: steel, stainless steel, composites, brass, copper, aluminum, fiber, silicon, plastic, combining of materials parts or terrorist, scanning to identify a terrorist destruction, biometrics for identifying detection for chemical, biological, sensor detection device receives a signal via wherein the monitoring equipment or multiany of one or more products of any product

12. The communication device [of claim 11] wherein each communication device includes at least one of an internet connection, a GPS connection, a radio frequency (RF) connection, or a central processing unit (cpu).	99. The multi-sensor detection system [of claim 81], wherein the multi sensor detection device is capable of transmitting biometric and authentication data including, but is not limited to, fingerprint recognition, voice recognition, face recognition, hand geometry, retina scan, iris scan, heart rate, pulse and signature.	25. The communication device of [claim 11] wherein the communication device has at least one of a Bluetooth connection, a Wi-Fi connection, a short and long range radio frequency connection, a Cellular connection, a satellite connection, and a GPS connection.
wherein at least one of a satellite connection, Bluetooth connection, WiFi connection, internet connection, radio frequency (RF) connection, cellular connection, broadband connection, long range radio frequency (RF) connection is capable of signal communication with the transmitter, a receiver of the monitoring equipment, the multi-sensor detection device, or transceivers of the products;	wherein the monitoring equipment is equipped with a biometric lock disabler that incorporates at least one of a fingerprint recognition, voice recognition, face recognition, hand geometry, retina scan, iris scan or signature such that the monitoring device that is at least one of the computer, the laptop, the notebook, the PC, the handheld, the cell phone, the PDA, or the smart phone is locked by the biometric lock disabler to prevent unauthorized use;	wherein the only type or types of communication with the transmitter and the receiver of the communication device and transceivers of the products is a type or types selected from the group consisting of satellite, Bluetooth, WiFi, internet, radio frequency (RF), cellular, broadband, long range radio frequency, and short range radio frequency (RF).
Every iPhone and iPad ever made has both WiFi and Bluetooth, two wireless technologies for connecting to nearby devices (in the case of Bluetooth) and the internet (in the case of WiFi). The cellular service, originally called 3G and now called LTE; this option allows the iPone to connect to the internet anywhere cell phone works, to check emails.	iPhone and iPad Touch ID is a seamless way to use your fingerprint as a passcode. Your fingerprint is one of the best passcodes in the world. With just a touch of your device's Home button, the Touch ID sensor quickly reads your fingerprint and automatically unlocks your phone.	Every iPhone and iPad ever made has both WiFi and Bluetooth, two wireless technologies for connecting to nearby devices (in the case of Bluetooth) and the internet (in the case of WiFi). The cellular service, originally called 3G and now called LTE; this option allows the iPone to connect to the internet anywhere cell phone works, to check emails.

1.19 Patent #: RE 43,990; Dependent Claims	ting a plurality of sensor detection system [of claim 103] wherein the cell phone, the smart phone, and the cell phone detector case have a plurality of sensors for detecting at least one of a chemical, biological, radiological, nuclear, explosive and contraband agents and compounds which are capable of being disposed within the cell phone, the smart phone, or the cell phone detector case.
Patent #: 9,589,439; Independent Claim 19	A multi-sensor detection system for detecting at least one explosive, nuclear, contraband, chemical, biological, human, radiological agent, or compound, comprising:
INSPIRE Track 2: Public Health Nanotechnology and Mobility (PHENOM)	The National Science Foundation hereby awards a grant of \$3,000,000 to Cornell University This project, entitled "INSPIRE Track 2: Public Health, Nanotechnology, and Mobility (PHeNoM), "is under the direction of David C. Erickson, Aydogan Ozcan, Saurabh Mehta, Deborah Estrin, Tanzeem Choudhury This award starts August 15, 2014 and ends July 31, 2019 Award: 1343058PI Name: Erickson, David Award Date August 11, 2014 first demonstrate that this roadblock to the deployment of lab-on-chip technology can be fundamentally altered by taking advantage of the now ubiquitous installed base of smartphone technology we focus our efforts on developing and deploying three systems that can have an immediate impact on advancing personalized healthcare in the US: a Stress-Phone for long term stress management, a Nutri-Phone for bloodwork enabled nutritional awareness, and a Hema-Phone for monitoring viral loading in HIV+patient

The fusion of physical sensing and molecular assays on mobile platforms will enable healthcare diagnostics that are far more telling than what is possible with either technology alone, thereby enabling the earlierstage detection of disease. New bio-infomobile diagnostics that intertwine advantages of mobility, physical sensing, and biomolecular assays.	a plurality of sensors for detecting at least one chemical, biological, radiological, explosive, nuclear, human, or contraband agent or compound, capable of being disposed within, on, upon or adjacent a multi-sensor detection device;	118. The multi-sensor detection system [of claim 103] wherein the cell phone, the smart phone, and the cell phone detector case have a plurality of sensors for detecting at least one of a chemical, biological, radiological, nuclear, explosive and contraband agents and compounds which are capable of being disposed within the cell phone, the smart phone, or the cell phone detector case.
The fusion of physical sensing and molecular assays on mobile platforms will enable healthcare diagnostics that are far more telling than what is possible with either technology alone, thereby enabling the earlierstage detection of disease. New bio-infomobile diagnostics that intertwine advantages of mobility, physical sensing, and biomolecular assays.	monitoring equipment comprising at least one of a computer, personal computer (PC), laptop, notebook PC, handheld, cell phone, personal digital assistant (PDA) or smart phone for at least one of a receipt or transmission of signals therebetween;	claim 103] wherein the cell phone, the smart phone, and the cell phone detector case have a plurality of sensors for detecting at least one of a chemical, biological, radiological, nuclear, explosive and contraband agents and compounds which are capable of being disposed within the cell phone, the smart phone, or the cell phone detector case.
Cellular carriers have extremely precise GPS measurements of the locations of all their towers. With a database of such towers, you can take measurements of the signal strength of those within range—which may be dozens—and trilateration to find an area that overlaps among them. Apple uses AGPS for native GPS-lock improvements, and Wi-Fi network and cell tower locations are additional factors in providing a fast initial connection along with improving GPS accuracy.	at least one cell phone tower interconnected to the monitoring equipment for sending signals thereto and receiving signals therefrom or at least one satellite capable of transmitting signals to the monitoring equipment;	92. The multi-sensor detection system [of claim 81], further comprising a global positioning system (GPS) receiver adapted for communication with at least one satellite.

network of ubiquitous sensing and detecting.

threat; grouping security devices to form a

biomolecular assays.

terrorist, scanning to identify a terrorist

destruction, biometrics for identifying

radiological, nuclear, explosive compounds

security problems of at least one of: theft,

detection for chemical, biological,

elements to form a whole; similarities in

plastic, combining of materials parts or

and agents, detection for weapons of mass

technology alone, thereby enabling the earliersmartphone technology...we focus our efforts mobile diagnostics that intertwine advantages deployment of lab-on-chip technology can be fundamentally altered by taking advantage of more telling than what is possible with either advancing personalized healthcare in the US: Phone for monitoring viral loading in HIV+ on developing and deploying three systems management, a Nutri-Phone for bloodwork enabled nutritional awareness, and a Hema-First demonstrate that this roadblock to the patient. The fusion of physical sensing and molecular assays on mobile platforms will stage detection of disease. New bio-infoenable healthcare diagnostics that are far that can have an immediate impact on the now ubiquitous installed base of a Stress-Phone for long term stress of mobility, physical sensing, and

similarities in material composition of at least devices, handheld communication devices...; one of: steel, stainless steel, composites, brass, copper, aluminum, fiber, silicon, sensor detection device receives a signal via wherein the monitoring equipment or multiany of one or more products of any product grouping categories;

products to be monitored, the devices that are

claim 103] wherein the cell phone, the smart phone, and the cell phone detector case have

124. The multi-sensor detection system [of

into anti-terrorist product groupings based on

communication equipment can be grouped

monitoring, communication devices,

the categories of similarities of design of at

least one of: sensors, software, interfaces,

detector cases, locks, mobile communication

Every iPhone and iPad ever made has both WiFi and Bluetooth, two wireless technologies for connecting to nearby devices (in the case of Bluetooth) and the internet (in the case of WiFi). The cellular service, originally called 3G and now called LTE; this option allows the iPone to connect to the internet anywhere cell phone works, to check emails.	wherein at least one of a satellite connection, Bluetooth connection, WiFi connection, internet connection, radio frequency (RF) connection, cellular connection, broadband connection, long range radio frequency connection, or short range radio frequency (RF) connection is capable of signal communication with the transmitter, a receiver of the monitoring equipment, the multi-sensor detection device, or transceivers of the products;	12. The communication device [of claim 11] wherein each communication device includes at least one of an internet connection, a GPS connection, a radio frequency (RF) connection, or a central processing unit (cpu).
iPhone and iPad Touch ID is a seamless way to use your fingerprint as a passcode. Your fingerprint is one of the best passcodes in the world. With just a touch of your device's Home button, the Touch ID sensor quickly reads your fingerprint and automatically unlocks your phone.	wherein the monitoring equipment is equipped with a biometric lock disabler that incorporates at least one of a fingerprint recognition, voice recognition, face recognition, hand geometry, retina scan, iris scan or signature such that the monitoring device that is at least one of the computer, the laptop, the notebook, the PC, the handheld, the cell phone, the PDA, or the smart phone is locked by the biometric lock disabler to prevent unauthorized use;	of claim 81], wherein the multi sensor detection device is capable of transmitting biometric and authentication data including, but is not limited to, fingerprint recognition, voice recognition, face recognition, hand geometry, retina scan, iris scan, heart rate, pulse and signature.
Every iPhone and iPad ever made has both WiFi and Bluetooth, two wireless technologies for connecting to nearby devices (in the case of Bluetooth) and the internet (in the case of WiFi). The cellular service, originally called 3G and now called LTE; this option allows the iPone to connect to the internet anywhere cell phone works, to check emails.	wherein the only type or types of communication with the transmitter and the receiver of the communication device and transceivers of the products is a type or types selected from the group consisting of satellite, Bluetooth, WiFi, internet, radio frequency (RF), cellular, broadband, long range radio frequency, and short range radio frequency (RF).	25. The communication device of [claim 11] wherein the communication device has at least one of a Bluetooth connection, a Wi-Fi connection, a short and long range radio frequency connection, a Cellular connection, a satellite connection, and a GPS connection.

Patent #: RE 43,990; Dependent Claims	118. The multi-sensor detection system [of claim 103] wherein the cell phone, the smart phone, and the cell phone detector case have a plurality of sensors for detecting at least one of a chemical, biological, radiological, nuclear, explosive and contraband agents and compounds which are capable of being disposed within the cell phone, the smart phone, or the cell phone detector case.
Patent #: 9,589,439; Independent Claim 19	A multi-sensor detection system for detecting at least one explosive, nuclear, contraband, chemical, biological, human, radiological agent, or compound, comprising:
PEL:BIC Human-Centered Smart- Integration of Mobile Imaging and Sensing	The National Science Foundation hereby awards a grant of \$1,000,000 to University of California, Los Angeles This project, entitled "PFI: BIC Human-Centered Smart-Integration of Mobile Imaging and Sensing Tools with Machine Learning for Ubiquitous Quantification of Waterborne and Airborne Nanoparticles," is under the direction of Aydogan Ozcan, Mihaela van der Schaar This awards starts October 1, 2015 and ends September 30, 2018 Award: 1533983 PI Name: Ozcan, Aydogan Award Date: August 6, 2015 PFI: bic – Human-Centered Smart-Integration of Mobile Imaging & Sensing Tools with Machine Learning and Big Data Analysis for Ubiquitous and Cost-effective Quantification of Waterborne & Airborne Nanoparticles {PI: Aydogan Ozcan – UCLA} Another approached that will be implemented is the development of highly sensitive multi-modal (e.g. multi-color fluorescence & dark-field) mobile-phone based microscopy platforms for distributed nanoparticle imaging and sensing

The proposed devices will be easy to translate into various biomedical, chemical and material science applications, impacting the use of nanotechnologies based on costeffective integration of computational imaging and mobile-phone based sensing techniques and rapid analysis and smart service systems on mass-produced chips embedded in mobile phones.	a plurality of sensors for detecting at least one chemical, biological, radiological, explosive, nuclear, human, or contraband agent or compound, capable of being disposed within, on, upon or adjacent a multi-sensor detection device;	claim 103] wherein the cell phone, the smart phone, and the cell phone detector case have a plurality of sensors for detecting at least one of a chemical, biological, radiological, nuclear, explosive and contraband agents and compounds which are capable of being disposed within the cell phone, the smart phone, or the cell phone detector case.
The proposed devices will be easy to translate into various biomedical, chemical and material science applications, impacting the use of nanotechnologies based on costeffective integration of computational imaging and mobile-phone based sensing techniques and rapid analysis and smart service systems on mass-produced chips embedded in mobile phones.	monitoring equipment comprising at least one of a computer, personal computer (PC), laptop, notebook PC, handheld, cell phone, personal digital assistant (PDA) or smart phone for at least one of a receipt or transmission of signals therebetween;	claim 103] wherein the cell phone, the smart phone, and the cell phone detector case have a plurality of sensors for detecting at least one of a chemical, biological, radiological, nuclear, explosive and contraband agents and compounds which are capable of being disposed within the cell phone, the smart phone, or the cell phone detector case.
Cellular carriers have extremely precise GPS measurements of the locations of all their towers. With a database of such towers, you can take measurements of the signal strength of those within range—which may be dozens—and trilateration to find an area that overlaps among them. Apple uses AGPS for native GPS-lock improvements, and Wi-Fi network and cell tower locations are additional factors in providing a fast initial connection along with improving GPS accuracy.	at least one cell phone tower interconnected to the monitoring equipment for sending signals thereto and receiving signals therefrom or at least one satellite capable of transmitting signals to the monitoring equipment;	92. The multi-sensor detection system [of claim 81], further comprising a global positioning system (GPS) receiver adapted for communication with at least one satellite.

phone wherein the communication device [of claim 11] wherein the communication device has at ion least one of a Bluetooth connection, a Wi-Fi connection, a short and long range radio frequency connection, a Cellular connection, a satellite connection, and a GPS connection.	12. The communication device [of claim 11] wherein each communication device includes at least one of an internet connection, a GPS connection, a radio frequency (RF) connection, or a central processing unit (cpu).	of the tellite; least a long claim 81], further comprising a global to be positioning system (GPS) receiver adapted for communication with at least one satellite.
at least one satellite or at least one cell phone tower capable of signal communication between the multi-sensor detection device and the monitoring equipment;	at least one internet connection capable of communication between the multi-sensor detection device and the monitoring equipment;	whereupon a signal sent to a receiver of the multi-sensor detection device from a satellite; or to a cell phone tower; or through at least one of a short range radio frequency or a long range radio frequency; causes a signal to be sent to the monitoring equipment that includes at least one of location data or sensor data;
Every iPhone and iPad ever made has both WiFi and Bluetooth, two wireless technologies for connecting to nearby devices (in the case of Bluetooth) and the internet (in the case of WiFi). The cellular service, originally called 3G and now called LTE; this option allows the iPone to connect to the internet anywhere cell phone works, to check emails.	Every iPhone and iPad ever made has both WiFi and Bluetooth, two wireless technologies for connecting to nearby devices (in the case of Bluetooth) and the internet (in the case of WiFi). The cellular service, originally called 3G and now called LTE; this option allows the iPone to connect to the internet anywhere cell phone works, to check emails.	Cellular carriers have precise GPS measurements of locations of all their towers. With a database of such towers, you can take measurements of the signal strength of those within range and trilateration to find an area that overlaps among them. Apple uses AGPS for native GPS-lock improvements, and Wi-Fi network and cell tower locations are additional factors in providing a fast connection along with improving GPS accuracy.

mobile-phone based microscopy platforms for The proposed devices will be easy to translate PFI: bic - Human-Centered Smart-Integration distributed nanoparticle imaging and sensing. Ubiquitous and Cost-effective Quantification of Waterborne & Airborne Nanoparticles {PI: Machine Learning and Big Data Analysis for development of highly sensitive multi-modal material science applications, impacting the (e.g. multi-color fluorescence & dark-field) approached that will be implemented is the imaging and mobile-phone based sensing of Mobile Imaging & Sensing Tools with service systems on mass-produced chips techniques and rapid analysis and smart use of nanotechnologies based on costinto various biomedical, chemical and effective integration of computational Aydogan Ozcan – UCLA}...Another embedded in mobile phones

grouping categories;

products to be monitored, the devices that are

phone, and the cell phone detector case have

claim 103] wherein the cell phone, the smart

124. The multi-sensor detection system [of

into anti-terrorist product groupings based on

communication equipment can be grouped

monitoring, communication devices,

the categories of similarities of design of at

least one of: sensors, software, interfaces,

similarities in material composition of at least devices, handheld communication devices...; detector cases, locks, mobile communication network of ubiquitous sensing and detecting. radiological, nuclear, explosive compounds and agents, detection for weapons of mass security problems of at least one of: theft, elements to form a whole; similarities in threat; grouping security devices to form one of: steel, stainless steel, composites, plastic, combining of materials parts or terrorist, scanning to identify a terrorist brass, copper, aluminum, fiber, silicon, destruction, biometrics for identifying detection for chemical, biological, sensor detection device receives a signal via wherein the monitoring equipment or multiany of one or more products of any product

where the state of		
evices let (in ce, E; this the check	wherein at least one of a satellite connection, Bluetooth connection, WiFi connection, internet connection, radio frequency (RF) connection, cellular connection, broadband connection, long range radio frequency (RF) connection is capable of signal communication with the transmitter, a receiver of the monitoring equipment, the multi-sensor detection device, or transceivers of the products;	12. The communication device [of claim 11] wherein each communication device includes at least one of an internet connection, a GPS connection, a radio frequency (RF) connection, or a central processing unit (cpu).
iphone and iPad Touch ID is a seamless way to use your fingerprint as a passcode. Your fingerprint is one of the best passcodes in the world. With just a touch of your device's Home button, the Touch ID sensor quickly devireads your fingerprint and automatically lap unlocks your phone.	wherein the monitoring equipment is equipped with a biometric lock disabler that incorporates at least one of a fingerprint recognition, voice recognition, face recognition, hand geometry, retina scan, iris scan or signature such that the monitoring device that is at least one of the computer, the laptop, the notebook, the PC, the handheld, the cell phone, the PDA, or the smart phone is locked by the biometric lock disabler to prevent unauthorized use;	99. The multi-sensor detection system [of claim 81], wherein the multi sensor detection device is capable of transmitting biometric and authentication data including, but is not limited to, fingerprint recognition, voice recognition, face recognition, hand geometry, retina scan, iris scan, heart rate, pulse and signature.
Every iPhone and iPad ever made has both WiFi and Bluetooth, two wireless technologies for connecting to nearby devices rec (in the case of Bluetooth) and the internet (in the case of WiFi). The cellular service, originally called 3G and now called LTE; this option allows the iPone to connect to the internet anywhere cell phone works, to check free emails.	wherein the only type or types of communication with the transmitter and the receiver of the communication device and transceivers of the products is a type or types selected from the group consisting of satellite, Bluetooth, WiFi, internet, radio frequency (RF), cellular, broadband, long range radio frequency, and short range radio frequency (RF).	25. The communication device of [claim 11] wherein the communication device has at least one of a Bluetooth connection, a Wi-Fi connection, a short and long range radio frequency connection, a Cellular connection, a satellite connection, and a GPS connection.

Patent #: RE 43,990; Dependent Claims	118. The multi-sensor detection system [of claim 103] wherein the cell phone, the smart phone, and the cell phone detector case have a plurality of sensors for detecting at least one of a chemical, biological, radiological, nuclear, explosive and contraband agents and compounds which are capable of being disposed within the cell phone, the smart phone, or the cell phone detector case.
Patent #: 9,589,439; Independent Claim 19	A multi-sensor detection system for detecting at least one explosive, nuclear, contraband, chemical, biological, human, radiological agent, or compound, comprising:
EFRI-BioFlex: Cellphone-Based Digital Immunoassay Platform	The National Science Foundation hereby awards a grant of \$2,000,000 to University of California, Los Angeles This project, entitled "EFRI – BioFlex: Cellphone-based Digital Immunoassay Platform for Highthroughput Sensitive and Multiplexed Detection and Distributed Spatio-Temporal Analysis of Influenza," is under the direction of Aydogan Ozcan, Dino Di Carlo, Omai B. Garner, Michael Lewinski This award is effective September 1, 2013 and expires August 31, 2017 Award: 1332275Pl Name: Ozcan, Aydogan Award Date: July 16, 2013 field-portable telemedicine platformas well as cellphone based multispectral fluorescent cytometry and computational microscopy tools The number of drops lighting up (corresponding to specific color- and shape-coded particles with different subtype-specific antibodies) will then be imaged all in parallel using a cellphone-based multi-spectral imaging system custom-developed smart application running on the cellphone, will analyzed for rapid detection of various influenza subtypes.

claim 103] wherein the cell phone, the smart phone, and the cell phone detector case have a plurality of sensors for detecting at least one of a chemical, biological, radiological, nuclear, explosive and contraband agents and compounds which are capable of being disposed within the cell phone, the smart phone, or the cell phone detector case.	claim 103] wherein the cell phone, the smart phone, and the cell phone detector case have a plurality of sensors for detecting at least one of a chemical, biological, radiological, nuclear, explosive and contraband agents and compounds which are capable of being disposed within the cell phone, the smart phone, or the cell phone detector case.	92. The multi-sensor detection system [of claim 81], further comprising a global positioning system (GPS) receiver adapted for communication with at least one satellite.
a plurality of sensors for detecting at least one chemical, biological, radiological, explosive, nuclear, human, or contraband agent or compound, capable of being disposed within, on, upon or adjacent a multi-sensor detection device;	monitoring equipment comprising at least one of a computer, personal computer (PC), laptop, notebook PC, handheld, cell phone, personal digital assistant (PDA) or smart phone for at least one of a receipt or transmission of signals therebetween;	at least one cell phone tower interconnected to the monitoring equipment for sending signals thereto and receiving signals therefrom or at least one satellite capable of transmitting signals to the monitoring equipment;
There is an urgent need for portable, rapid, sensitive and specific influenza surveillance systems worldwide. Increasing sensitivity and multiplexing to multiple flu subtypes using a wide-field computational imaging platform running on a cellphone. The same fieldportable digital immunoassay platform running on cellphones used in wide range diagnostics.	There is an urgent need for portable, rapid, sensitive and specific influenza surveillance systems worldwide. Increasing sensitivity and multiplexing to multiple flu subtypes using a wide-field computational imaging platform running on a cellphone. The same field-portable digital immunoassay platform running on cellphones used in wide range diagnostics.	Cellular carriers have extremely precise GPS measurements of the locations of all their towers. With a database of such towers, you can take measurements of the signal strength of those within range—which may be dozens—and trilateration to find an area that overlaps among them. Apple uses AGPS for native GPS-lock improvements, and Wi-Fi network and cell tower locations are additional factors in providing a fast initial connection along with improving GPS accuracy.

25. The communication device [of claim 11] wherein the communication device has at least one of a Bluetooth connection, a Wi-Fi connection, a short and long range radio frequency connection, a Cellular connection, a satellite connection, and a GPS connection.	able of wherein each communication device [of claim 11] wherein each communication device includes at least one of an internet connection, a radio frequency (RF) connection, or a central processing unit (cpu).	r of the satellite; at least or a long claim 81], further comprising a global al to be positioning system (GPS) receiver adapted that for communication with at least one satellite.
at least one satellite or at least one cell phone tower capable of signal communication between the multi-sensor detection device and the monitoring equipment;	at least one internet connection capable of communication between the multi-sensor detection device and the monitoring equipment;	whereupon a signal sent to a receiver of the multi-sensor detection device from a satellite; or to a cell phone tower; or through at least one of a short range radio frequency or a long range radio frequency; causes a signal to be sent to the monitoring equipment that includes at least one of location data or sensor data;
Every iPhone and iPad ever made has both WiFi and Bluetooth, two wireless technologies for connecting to nearby devices (in the case of Bluetooth) and the internet (in the case of WiFi). The cellular service, originally called 3G and now called LTE; this option allows the iPone to connect to the internet anywhere cell phone works, to check emails.	Every iPhone and iPad ever made has both WiFi and Bluetooth, two wireless technologies for connecting to nearby devices (in the case of Bluetooth) and the internet (in the case of WiFi). The cellular service, originally called 3G and now called LTE; this option allows the iPone to connect to the internet anywhere cell phone works, to check emails.	Cellular carriers have precise GPS measurements of locations of all their towers. With a database of such towers, you can take measurements of the signal strength of those within range and trilateration to find an area that overlaps among them. Apple uses AGPS for native GPS-lock improvements, and Wi-Fi network and cell tower locations are additional factors in providing a fast connection along with improving GPS accuracy.

sensor detection device receives a signal via wherein the monitoring equipment or multiany of one or more products of any product grouping categories; computational imaging platform running on a immunoassay platform running on cellphones field-portable telemedicine platform...as well coded particles with different subtype-specific as cellphone based multi-spectral fluorescent antibodies) will then be imaged all in parallel (corresponding to specific color- and shapeinfluenza subtypes. There is an urgent need imaging system...custom-developed smart influenza surveillance systems worldwide. Increasing sensitivity and multiplexing to cellphone. The same field-portable digital for portable, rapid, sensitive and specific cytometry and computational microscopy application running on the cellphone, will multiple flu subtypes using a wide-field tools...The number of drops lighting up analyzed for rapid detection of various using a cellphone-based multi-spectral used in wide range diagnostics.

products to be monitored, the devices that are

phone, and the cell phone detector case have

claim 103] wherein the cell phone, the smart

124. The multi-sensor detection system [of

into anti-terrorist product groupings based on

communication equipment can be grouped

monitoring, communication devices,

the categories of similarities of design of at

least one of: sensors, software, interfaces,

detector cases, locks, mobile communication
devices, handheld communication devices...;
gnal via similarities in material composition of at least
one of: steel, stainless steel, composites,
brass, copper, aluminum, fiber, silicon,
plastic, combining of materials parts or
elements to form a whole; similarities in
security problems of at least one of: theft,
detection for chemical, biological,
radiological, nuclear, explosive compounds
and agents, detection for weapons of mass
destruction, biometrics for identifying
terrorist, scanning to identify a terrorist
threat; grouping security devices to form a
network of ubiquitous sensing and detecting.

	Bluetooth connection, WiFi connection, internet connection, radio frequency (RF) connection, cellular connection, broadband	
<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		12. The communication device [of claim 11]
	connection, long range radio frequency	wherein each communication device includes
	connection, or short range radio frequency	at least one of an internet connection, a GPS
	(RF) connection is capable of signal	connection, a radio frequency (RF)
	communication with the transmitter, a	connection, or a central processing unit (cpu).
	receiver of the monitoring equipment, the	
	multi-sensor detection device, or transceivers	
	of the products;	
	wherein the monitoring equipment is	
	equipped with a biometric lock disabler that	00 The multi concor detection exertem Lof
		73. The multi-sensor detection system [Or
	recognition, voice recognition, face	dering to complie of transmitting hismatric
fingerprint is one of the best passcodes in the recognition, han	ecognition, hand geometry, retina scan, iris	and authentication data including but is not
world. With just a touch of your device's scan or signatur	scan or signature such that the monitoring	limited to fingerwint recognition voice
Home button, the Touch ID sensor quickly device that is at 1	O	recomition face recomition hand geometry
reads your fingerprint and automatically laptop, the note	laptop, the notebook, the PC, the handheld,	reting scan iris scan heart rate mile and
	the cell phone, the PDA, or the smart phone is	reting seem, and seem, areas, pease and
	locked by the biometric lock disabler to	orginature.
preven	prevent unauthorized use;	And the state of t
Every iPhone and iPad ever made has both wherein th	wherein the only type or types of	
WiFi and Bluetooth, two wireless communication	communication with the transmitter and the	25 The communication device of [claim 11]
technologies for connecting to nearby devices receiver of the	receiver of the communication device and	wherein the communication device has at
(in the case of Bluetooth) and the internet (in transceivers of the	transceivers of the products is a type or types	least one of a Bluetooth connection a Wi-Fi
the case of WiFi). The cellular service, selected from the	selected from the group consisting of satellite,	connection a short and long range radio
his	Bluetooth, WiFi, internet, radio frequency	frequency connection a Cellular connection
option allows the iPone to connect to the (RF), cellular, l	(RF), cellular, broadband, long range radio	seatellite connection and a GPS connection
internet anywhere cell phone works, to check frequency, and	frequency, and short range radio frequency	a satellite counteelion, and a ca a connection
	(R.F.).	

Multimode Smartphone Biosensor Pate	Patent #: 9,589,439; Independent Claim 19	Patent #: RE 43,990; Dependent Claims
The National Science Foundation hereby awards a grant of \$600,000 to the Board of Trustees of the University of Illinois at Urbana – ChampaignThis project, entitled "Multimode Smartphone Biosensor," is under the direction of Brian Cunningham, Steven S. LumettaThis award is effective June 1, 2013 and expires May 31, 2016Award: 1264377PI Name: Cunningham, BrianAward DateJanuary 14,????We plan to integrate four of the most commonly used detection modalities for diagnostic assays into a handheld cradle that interfaces with a smartphone. Incorporation of biosensing into smartphone platforms is a potentially powerful developmentLow-cost portable biosensor systems integrated with smartphones may enable diagnostic technology that can be translated for pathogen detection, disease diagnosis, and monitoring of nutritional status The smartphone as a spectrometer, and the internal camera as a spectrometer, and the internal LED as a	A multi-sensor detection system for detecting at least one explosive, nuclear, contraband, chemical, biological, human, radiological agent, or compound, comprising:	118. The multi-sensor detection system [of claim 103] wherein the cell phone, the smart phone, and the cell phone detector case have a plurality of sensors for detecting at least one of a chemical, biological, radiological, nuclear, explosive and contraband agents and compounds which are capable of being disposed within the cell phone, the smart phone, or the cell phone detector case.

		118. The multi-sensor detection system [of
The wide applicability of the multimode smartphone detection of a biomarker proteins a that are used to indicate the nutritional status of children, detection of a toxic chemical that can contaminate harvested corn, detection of mRNA sequences used to identify a bacterial pathogen, and detection of an HIV viral antibody.	a plurality of sensors for detecting at least one chemical, biological, radiological, explosive, nuclear, human, or contraband agent or compound, capable of being disposed within, on, upon or adjacent a multi-sensor detection device;	claim 103] wherein the cell phone, the smart phone, and the cell phone detector case have a plurality of sensors for detecting at least one of a chemical, biological, radiological, nuclear, explosive and contraband agents and compounds which are capable of being disposed within the cell phone, the smart phone, or the cell phone detector case.
The wide applicability of the multimode smartphone detection of a biomarker proteins that are used to indicate the nutritional status of children, detection of a toxic chemical that can contaminate harvested corn, detection of mRNA sequences used to identify a bacterial pathogen, and detection of an HIV viral antibody.	The wide applicability of the multimode smartphone detection of a biomarker proteins of children, detection of a toxic chemical that contaminate harvested corn, detection of mRNA sequences used to identify a bacterial pathogen, and detection of an HIV viral antibody.	118. The multi-sensor detection system [of claim 103] wherein the cell phone, the smart phone, and the cell phone detector case have a plurality of sensors for detecting at least one of a chemical, biological, radiological, nuclear, explosive and contraband agents and compounds which are capable of being disposed within the cell phone, the smart phone, or the cell phone detector case.
Cellular carriers have extremely precise GPS measurements of the locations of all their towers. With a database of such towers, you can take measurements of the signal strength of those within range—which may be dozens—and trilateration to find an area that overlaps among them. Apple uses AGPS for native GPS-lock improvements, and Wi-Fi network and cell tower locations are additional factors in providing a fast initial connection along with improving GPS accuracy.	at least one cell phone tower interconnected to the monitoring equipment for sending signals thereto and receiving signals therefrom or at least one satellite capable of transmitting signals to the monitoring equipment;	92. The multi-sensor detection system [of claim 81], further comprising a global positioning system (GPS) receiver adapted for communication with at least one satellite.

25. The communication device [of claim 11] wherein the communication device has at least one of a Bluetooth connection, a Wi-Fi connection, a short and long range radio frequency connection, a Cellular connection, a satellite connection, and a GPS connection.	12. The communication device [of claim 11] wherein each communication device includes at least one of an internet connection, a GPS connection, a radio frequency (RF) connection, or a central processing unit (cpu).	92. The multi-sensor detection system [of claim 81], further comprising a global positioning system (GPS) receiver adapted for communication with at least one satellite.
at least one satellite or at least one cell phone tower capable of signal communication between the multi-sensor detection device and the monitoring equipment;	at least one internet connection capable of communication between the multi-sensor detection device and the monitoring equipment;	whereupon a signal sent to a receiver of the multi-sensor detection device from a satellite; or to a cell phone tower; or through at least one of a short range radio frequency or a long range radio frequency; causes a signal to be sent to the monitoring equipment that includes at least one of location data or sensor data;
Every iPhone and iPad ever made has both WiFi and Bluetooth, two wireless technologies for connecting to nearby devices (in the case of Bluetooth) and the internet (in the case of WiFi). The cellular service, originally called 3G and now called LTE; this option allows the iPone to connect to the internet anywhere cell phone works, to check emails.	Every iPhone and iPad ever made has both WiFi and Bluetooth, two wireless technologies for connecting to nearby devices (in the case of Bluetooth) and the internet (in the case of WiFi). The cellular service, originally called 3G and now called LTE; this option allows the iPone to connect to the internet anywhere cell phone works, to check emails.	Cellular carriers have precise GPS measurements of locations of all their towers. With a database of such towers, you can take measurements of the signal strength of those within range and trilateration to find an area that overlaps among them. Apple uses AGPS for native GPS-lock improvements, and Wi-Fi network and cell tower locations are additional factors in providing a fast connection along with improving GPS accuracy.

technology that can be translated for pathogen biosensor will utilize the internal camera as a potentially powerful development...Low-cost can contaminate harvested corn, detection of of biosensing into smartphone platforms is a detection, disease diagnosis, and monitoring mRNA sequences used to identify a bacterial diagnostic assays into a handheld cradle that interfaces with a smartphone. Incorporation applicability of the multimode smartphone children, detection of a toxic chemical that portable biosensor systems integrated with detection of a biomarker proteins that are spectrometer, and the internal LED as a used to indicate the nutritional status of pathogen, and detection of an HIV viral commonly used detection modalities for of nutritional status...The smartphone We plan to integrate four of the most smartphones may enable diagnostic broadband light source. The wide antibody

similarities in material composition of at least devices, handheld communication devices...; radiological, nuclear, explosive compounds and agents, detection for weapons of mass security problems of at least one of: theft, elements to form a whole; similarities in one of: steel, stainless steel, composites, plastic, combining of materials parts or brass, copper, aluminum, fiber, silicon, destruction, biometrics for identifying detection for chemical, biological, sensor detection device receives a signal via wherein the monitoring equipment or multiany of one or more products of any product grouping categories;

network of ubiquitous sensing and detecting.

threat; grouping security devices to form

terrorist, scanning to identify a terrorist

products to be monitored, the devices that are

phone, and the cell phone detector case have

claim 103] wherein the cell phone, the smart

124. The multi-sensor detection system [of

into anti-terrorist product groupings based on

communication equipment can be grouped

monitoring, communication devices,

the categories of similarities of design of at

detector cases, locks, mobile communication

least one of: sensors, software, interfaces,

The state of the s		
Every iPhone and iPad ever made has both WiFi and Bluetooth, two wireless technologies for connecting to nearby devices (in the case of Bluetooth) and the internet (in the case of WiFi). The cellular service, originally called 3G and now called LTE; this option allows the iPone to connect to the internet anywhere cell phone works, to check emails.	wherein at least one of a satellite connection, Bluetooth connection, WiFi connection, internet connection, radio frequency (RF) connection, cellular connection, broadband connection, long range radio frequency connection, or short range radio frequency (RF) connection is capable of signal communication with the transmitter, a receiver of the monitoring equipment, the multi-sensor detection device, or transceivers of the products;	12. The communication device [of claim 11] wherein each communication device includes at least one of an internet connection, a GPS connection, a radio frequency (RF) connection, or a central processing unit (cpu).
iPhone and iPad Touch ID is a seamless way to use your fingerprint as a passcode. Your fingerprint is one of the best passcodes in the world. With just a touch of your device's Home button, the Touch ID sensor quickly reads your fingerprint and automatically unlocks your phone.	wherein the monitoring equipment is equipped with a biometric lock disabler that incorporates at least one of a fingerprint recognition, voice recognition, face recognition, hand geometry, retina scan, iris scan or signature such that the monitoring device that is at least one of the computer, the laptop, the notebook, the PC, the handheld, the cell phone, the PDA, or the smart phone is locked by the biometric lock disabler to prevent unauthorized use;	99. The multi-sensor detection system [of claim 81], wherein the multi sensor detection device is capable of transmitting biometric and authentication data including, but is not limited to, fingerprint recognition, voice recognition, face recognition, hand geometry, retina scan, iris scan, heart rate, pulse and signature.
Every iPhone and iPad ever made has both WiFi and Bluetooth, two wireless technologies for connecting to nearby devices (in the case of Bluetooth) and the internet (in the case of WiFi). The cellular service, originally called 3G and now called LTE; this option allows the iPone to connect to the internet anywhere cell phone works, to check emails.	wherein the only type or types of communication with the transmitter and the receiver of the communication device and transceivers of the products is a type or types selected from the group consisting of satellite, Bluetooth, WiFi, internet, radio frequency (RF), cellular, broadband, long range radio frequency, and short range radio frequency (RF).	25. The communication device of [claim 11] wherein the communication device has at least one of a Bluetooth connection, a Wi-Fi connection, a short and long range radio frequency connection, a Cellular connection, a satellite connection, and a GPS connection.

EAGER: Lab-in-a-Smartphone	Patent #: 9,589,439; Independent Claim 19	Patent #: RE 43,990; Dependent Claims
The National Science Foundation hereby awards a grant of \$300,000 to the Board of Trustees of the University of Illinois at Urbana – Champaign This project, entitled "EAGER: Lab-in-a-Smartphone," in under the direction of Brian Cunningham, John Dallesasse This award starts September 1, 2014 and ends August 31, 2016 Award: 1447893 PI Name: Cunningham, Brian Award Date: July 3, 2014 an inexpensive approach for integrating sophisticated laboratory analytical tools into smartphones and other mobile devices through custom cradles, circuit boards, or sensors that must be adapted to specific models of phones/tablets can be integrated with any device through addition of a specially configured CMOS image sensor that performs multiple modes of optical analysis with performance of that of laboratory instruments Using integrated semiconductor laser diodes and LEDs within the smartphone data-sharing of smartphone-based sensors will enable distributed networks of sensors to be deployed.	A multi-sensor detection system for detecting at least one explosive, nuclear, contraband, chemical, biological, human, radiological agent, or compound, comprising:	118. The multi-sensor detection system [of claim 103] wherein the cell phone, the smart phone, and the cell phone detector case have a plurality of sensors for detecting at least one of a chemical, biological, radiological, nuclear, explosive and contraband agents and compounds which are capable of being disposed within the cell phone, the smart phone, or the cell phone detector case.

claim 103] wherein the cell phone, the smart phone, and the cell phone detector case have a plurality of sensors for detecting at least one of a chemical, biological, radiological, nuclear, explosive and contraband agents and compounds which are capable of being disposed within the cell phone, the smart phone, or the cell phone detector case.	claim 103] wherein the cell phone, the smart phone, and the cell phone detector case have a plurality of sensors for detecting at least one of a chemical, biological, radiological, nuclear, explosive and contraband agents and compounds which are capable of being disposed within the cell phone, the smart phone, or the cell phone detector case.	92. The multi-sensor detection system [of claim 81], further comprising a global positioning system (GPS) receiver adapted for communication with at least one satellite.
a plurality of sensors for detecting at least one chemical, biological, radiological, explosive, nuclear, human, or contraband agent or compound, capable of being disposed within, on, upon or adjacent a multi-sensor detection device;	monitoring equipment comprising at least one of a computer, personal computer (PC), laptop, notebook PC, handheld, cell phone, personal digital assistant (PDA) or smart phone for at least one of a receipt or transmission of signals therebetween;	at least one cell phone tower interconnected to the monitoring equipment for sending signals thereto and receiving signals therefrom or at least one satellite capable of transmitting signals to the monitoring equipment;
Smartphones and other devices capable of performing assays that include Enzyme Linked Immunosorbent Assays (ELISA), Polymerase Chain Reaction (PCR), Fluorescent Resonance Energy Transfer (FRET), Photonic Crystal (PC) biosensor, in addition to any other chemical/biological experiment that involves color change.	Smartphones and other devices capable of performing assays that include Enzyme Linked Immunosorbent Assays (ELISA), Polymerase Chain Reaction (PCR), Fluorescent Resonance Energy Transfer (FRET), Photonic Crystal (PC) biosensor, in addition to any other chemical/biological experiment that involves color change.	Cellular carriers have extremely precise GPS measurements of the locations of all their towers. With a database of such towers, you can take measurements of the signal strength of those within range—which may be dozens—and trilateration to find an area that overlaps among them. Apple uses AGPS for native GPS-lock improvements, and Wi-Fi network and cell tower locations are additional factors in providing a fast initial connection along with improving GPS accuracy.

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25. The communication device [of claim 11] wherein the communication device has at least one of a Bluetooth connection, a Wi-Fi connection, a short and long range radio frequency connection, a Cellular connection, a satellite connection, and a GPS connection.	12. The communication device [of claim 11] wherein each communication device includes at least one of an internet connection, a GPS connection, a radio frequency (RF) connection, or a central processing unit (cpu).	92. The multi-sensor detection system [of claim 81], further comprising a global positioning system (GPS) receiver adapted for communication with at least one satellite.
whereir least one connec frequency a satellite	12. The c wherein e at least o com	92. The claim positior for comm
at least one satellite or at least one cell phone tower capable of signal communication between the multi-sensor detection device and the monitoring equipment;	at least one internet connection capable of communication between the multi-sensor detection device and the monitoring equipment;	whereupon a signal sent to a receiver of the multi-sensor detection device from a satellite; or to a cell phone tower; or through at least one of a short range radio frequency or a long range radio frequency; causes a signal to be sent to the monitoring equipment that includes at least one of location data or sensor data;
Every iPhone and iPad ever made has both WiFi and Bluetooth, two wireless technologies for connecting to nearby devices (in the case of Bluetooth) and the internet (in the case of WiFi). The cellular service, originally called 3G and now called LTE; this option allows the iPone to connect to the internet anywhere cell phone works, to check emails.	Every iPhone and iPad ever made has both WiFi and Bluetooth, two wireless technologies for connecting to nearby devices (in the case of Bluetooth) and the internet (in the case of WiFi). The cellular service, originally called 3G and now called LTE; this option allows the iPone to connect to the internet anywhere cell phone works, to check emails.	Cellular carriers have precise GPS measurements of locations of all their towers. With a database of such towers, you can take measurements of the signal strength of those within range and trilateration to find an area that overlaps among them. Apple uses AGPS for native GPS-lock improvements, and Wi-Fi network and cell tower locations are additional factors in providing a fast connection along with improving GPS

sensor detection device receives a signal via wherein the monitoring equipment or multiany of one or more products of any product grouping categories; integrated with any device through addition of (ELISA), Polymerase Chain Reaction (PCR), semiconductor laser diodes and LEDs within (FRET), Photonic Crystal (PC) biosensor, in integrating sophisticated laboratory analytical capabilities of smartphone-based sensors will enable distributed networks of sensors to be a specially configured CMOS image sensor specific models of phones/tablets...can be boards, or sensors that must be adapted to laboratory instruments...Using integrated deployed. Smartphones and other devices capable of performing assays that include addition to any other chemical/biological Fluorescent Resonance Energy Transfer tools into smartphones and other mobile Enzyme Linked Immunosorbent Assays that performs multiple modes of optical devices through custom cradles, circuit experiment that involves color change. analysis with performance of that of the smartphone... The data-sharing

similarities in material composition of at least into anti-terrorist product groupings based on detector cases, locks, mobile communication devices, handheld communication devices...; network of ubiquitous sensing and detecting. radiological, nuclear, explosive compounds the categories of similarities of design of at and agents, detection for weapons of mass communication equipment can be grouped security problems of at least one of: theft, least one of: sensors, software, interfaces, elements to form a whole; similarities in one of: steel, stainless steel, composites, plastic, combining of materials parts or terrorist, scanning to identify a terrorist threat; grouping security devices to form brass, copper, aluminum, fiber, silicon, destruction, biometrics for identifying monitoring, communication devices, detection for chemical, biological,

products to be monitored, the devices that are

claim 103] wherein the cell phone, the smart phone, and the cell phone detector case have

124. The multi-sensor detection system [of

12. The communication device [of claim 11] wherein each communication device includes at least one of an internet connection, a GPS connection, a radio frequency (RF) connection, or a central processing unit (cpu).	99. The multi-sensor detection system [of claim 81], wherein the multi sensor detection device is capable of transmitting biometric and authentication data including, but is not limited to, fingerprint recognition, voice recognition, face recognition, hand geometry, retina scan, iris scan, heart rate, pulse and signature.	25. The communication device of [claim 11] wherein the communication device has at least one of a Bluetooth connection, a Wi-Fi connection, a short and long range radio frequency connection, a Cellular connection, a satellite connection, and a GPS connection.
wherein at least one of a satellite connection, Bluetooth connection, WiFi connection, internet connection, radio frequency (RF) connection, cellular connection, broadband connection, long range radio frequency (RF) connection is capable of signal communication with the transmitter, a receiver of the monitoring equipment, the multi-sensor detection device, or transceivers of the products;	wherein the monitoring equipment is equipped with a biometric lock disabler that incorporates at least one of a fingerprint recognition, voice recognition, face recognition, hand geometry, retina scan, iris scan or signature such that the monitoring device that is at least one of the computer, the laptop, the notebook, the PC, the handheld, the cell phone, the PDA, or the smart phone is locked by the biometric lock disabler to prevent unauthorized use;	wherein the only type or types of communication with the transmitter and the receiver of the communication device and transceivers of the products is a type or types selected from the group consisting of satellite, Bluetooth, WiFi, internet, radio frequency (RF), cellular, broadband, long range radio frequency, and short range radio frequency (RF).
Every iPhone and iPad ever made has both WiFi and Bluetooth, two wireless technologies for connecting to nearby devices (in the case of Bluetooth) and the internet (in the case of WiFi). The cellular service, originally called 3G and now called LTE; this option allows the iPone to connect to the internet anywhere cell phone works, to check emails.	iPhone and iPad Touch ID is a seamless way to use your fingerprint as a passcode. Your fingerprint is one of the best passcodes in the world. With just a touch of your device's Home button, the Touch ID sensor quickly reads your fingerprint and automatically unlocks your phone.	Every iPhone and iPad ever made has both WiFi and Bluetooth, two wireless technologies for connecting to nearby devices (in the case of Bluetooth) and the internet (in the case of WiFi). The cellular service, originally called 3G and now called LTE; this option allows the iPone to connect to the internet anywhere cell phone works, to check emails.

Patent #: RE 43,990; Dependent Claims	118. The multi-sensor detection system [of claim 103] wherein the cell phone, the smart phone, and the cell phone detector case have a plurality of sensors for detecting at least one of a chemical, biological, radiological, nuclear, explosive and contraband agents and compounds which are capable of being disposed within the cell phone, the smart phone, or the cell phone detector case.
Patent #: 9,589,439; Independent Claim 19	A multi-sensor detection system for detecting at least one explosive, nuclear, contraband, chemical, biological, human, radiological agent, or compound, comprising:
PFI-BIC "Pathtracker: Smartphone-based for Mobile Infectious Disease Detection	The National Science Foundation hereby awards a grant of \$999, 995 to the Board of Trustees of the University of Illinois at Urbana – Champaign This project, entitled "PFI:BIC – Pathtracker: A smartphone-based system for mobile infectious disease detection and epidemiology," is under the direction of Brian Cunningham, Ian S. Brooks, Rashid Bashir, David Hirschberg, Steven S. Lumetta This award starts September 1, 2015 and ends August 31, 2018Award: 1534126PI Name: Cunningham, BrianAward Date: August 22, 2016(PFI:BIC) project "PathTracker: A Smartphone-Based System for Mobile Infectious Disease Detection and Epidemiology will develop a mobile sensor technology for performing detection and identification of viral and bacterial pathogens through a smartphone-based detection and be "swiped through a custom handheld detection instrument that interfaces with the back-facing camera of a conventional

Custom handheld detection instrument that interfaces with the back-facing camera of a conventional smartphone. The PathTracker system will enable rapid determination and reporting of instances of infectious disease. Most sensitive and specific approaches for identification of viral or bacterial pathogens.	a plurality of sensors for detecting at least one chemical, biological, radiological, explosive, nuclear, human, or contraband agent or compound, capable of being disposed within, on, upon or adjacent a multi-sensor detection device;	claim 103] wherein the cell phone, the smart phone, and the cell phone detector case have a plurality of sensors for detecting at least one of a chemical, biological, radiological, nuclear, explosive and contraband agents and compounds which are capable of being disposed within the cell phone, the smart phone, or the cell phone detector case.
Custom handheld detection instrument that interfaces with the back-facing camera of a conventional smartphone. The PathTracker system will enable rapid determination and reporting of instances of infectious disease. Most sensitive and specific approaches for identification of viral or bacterial pathogens.	monitoring equipment comprising at least one of a computer, personal computer (PC), laptop, notebook PC, handheld, cell phone, personal digital assistant (PDA) or smart phone for at least one of a receipt or transmission of signals therebetween;	claim 103] wherein the cell phone, the smart phone, and the cell phone detector case have a plurality of sensors for detecting at least one of a chemical, biological, radiological, nuclear, explosive and contraband agents and compounds which are capable of being disposed within the cell phone, the smart phone, or the cell phone detector case.
Cellular carriers have extremely precise GPS measurements of the locations of all their towers. With a database of such towers, you can take measurements of the signal strength of those within range—which may be dozens—and trilateration to find an area that overlaps among them. Apple uses AGPS for native GPS-lock improvements, and Wi-Fi network and cell tower locations are additional factors in providing a fast initial connection along with improving GPS accuracy.	at least one cell phone tower interconnected to the monitoring equipment for sending signals thereto and receiving signals therefrom or at least one satellite capable of transmitting signals to the monitoring equipment;	92. The multi-sensor detection system [of claim 81], further comprising a global positioning system (GPS) receiver adapted for communication with at least one satellite.

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25. The communication device [of claim 11] wherein the communication device has at least one of a Bluetooth connection, a Wi-Fi	connection, a short and long range radio frequency connection, a Cellular connection, a satellite connection, and a GPS connection.	12. The communication device [of claim 11] wherein each communication device includes at least one of an internet connection, a GPS connection, a radio frequency (RF) connection, or a central processing unit (cpu).	92. The multi-sensor detection system [of claim 81], further comprising a global positioning system (GPS) receiver adapted for communication with at least one satellite.
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at least one satellite or at least one cell phone tower capable of signal communication	n device nt;	at least one internet connection capable of communication between the multi-sensor detection device and the monitoring equipment;	whereupon a signal sent to a receiver of the multi-sensor detection device from a satellite; or to a cell phone tower; or through at least one of a short range radio frequency or a long range radio frequency; causes a signal to be sent to the monitoring equipment that includes at least one of location data or sensor data;
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Every iPhone and iPad ever made has both WiFi and Bluetooth, two wireless technologies for connecting to nearby devices (in the case of Bluetooth) and the internet (in	originally called 3G and now called LTE; this option allows the iPone to connect to the internet anywhere cell phone works, to check emails.	Every iPhone and iPad ever made has both WiFi and Bluetooth, two wireless technologies for connecting to nearby devices (in the case of Bluetooth) and the internet (in the case of WiFi). The cellular service, originally called 3G and now called LTE; this option allows the iPone to connect to the internet anywhere cell phone works, to check emails.	Cellular carriers have precise GPS measurements of locations of all their towers. With a database of such towers, you can take measurements of the signal strength of those within range and trilateration to find an area that overlaps among them. Apple uses AGPS for native GPS-lock improvements, and Wi-Fi network and cell tower locations are additional factors in providing a fast connection along with improving GPS
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similarities in material composition of at least products to be monitored, the devices that are into anti-terrorist product groupings based on detector cases, locks, mobile communication devices, handheld communication devices...; claim 103] wherein the cell phone, the smart phone, and the cell phone detector case have network of ubiquitous sensing and detecting. radiological, nuclear, explosive compounds the categories of similarities of design of at 124. The multi-sensor detection system [of communication equipment can be grouped and agents, detection for weapons of mass least one of: sensors, software, interfaces, security problems of at least one of: theft, elements to form a whole; similarities in one of: steel, stainless steel, composites, plastic, combining of materials parts or terrorist, scanning to identify a terrorist threat; grouping security devices to form brass, copper, aluminum, fiber, silicon, destruction, biometrics for identifying monitoring, communication devices, detection for chemical, biological, sensor detection device receives a signal via wherein the monitoring equipment or multiany of one or more products of any product grouping categories; Epidemiology...will develop a mobile sensor identification of viral and bacterial pathogens specific approaches for identification of viral facing camera of a conventional smartphone. for Mobile Infectious Disease Detection and instrument...reactions within a chip that can detection instrument that interfaces with the determination and reporting of instances of "PathTracker: A Smartphone-Based System The PathTracker system will enable rapid technology for performing detection and smartphone. Custom handheld detection instrument that interfaces with the backbe "swiped through a custom handheld infectious disease. Most sensitive and through a smartphone-based detection back-facing camera of a conventional or bacterial pathogens.

12. The communication device [of claim 11] wherein each communication device includes at least one of an internet connection, a GPS connection, a radio frequency (RF) connection, or a central processing unit (cpu).	99. The multi-sensor detection system [of claim 81], wherein the multi sensor detection device is capable of transmitting biometric and authentication data including, but is not limited to, fingerprint recognition, voice recognition, face recognition, hand geometry, retina scan, iris scan, heart rate, pulse and signature.	25. The communication device of [claim 11] wherein the communication device has at least one of a Bluetooth connection, a Wi-Fi connection, a short and long range radio frequency connection, a Cellular connection, a satellite connection, and a GPS connection.
wherein at least one of a satellite connection, Bluetooth connection, WiFi connection, internet connection, radio frequency (RF) connection, cellular connection, broadband connection, long range radio frequency connection, or short range radio frequency (RF) connection is capable of signal communication with the transmitter, a receiver of the monitoring equipment, the multi-sensor detection device, or transceivers of the products;	wherein the monitoring equipment is equipped with a biometric lock disabler that incorporates at least one of a fingerprint recognition, voice recognition, face recognition, hand geometry, retina scan, iris scan or signature such that the monitoring device that is at least one of the computer, the laptop, the notebook, the PC, the handheld, the cell phone, the PDA, or the smart phone is locked by the biometric lock disabler to prevent unauthorized use;	wherein the only type or types of communication with the transmitter and the receiver of the communication device and transceivers of the products is a type or types selected from the group consisting of satellite, Bluetooth, WiFi, internet, radio frequency (RF), cellular, broadband, long range radio frequency, and short range radio frequency (RF).
Every iPhone and iPad ever made has both WiFi and Bluetooth, two wireless technologies for connecting to nearby devices (in the case of Bluetooth) and the internet (in the case of WiFi). The cellular service, originally called 3G and now called LTE; this option allows the iPone to connect to the internet anywhere cell phone works, to check emails.	iPhone and iPad Touch ID is a seamless way to use your fingerprint as a passcode. Your fingerprint is one of the best passcodes in the world. With just a touch of your device's Home button, the Touch ID sensor quickly reads your fingerprint and automatically unlocks your phone.	Every iPhone and iPad ever made has both WiFi and Bluetooth, two wireless technologies for connecting to nearby devices (in the case of Bluetooth) and the internet (in the case of WiFi). The cellular service, originally called 3G and now called LTE; this option allows the iPone to connect to the internet anywhere cell phone works, to check emails.

Patent #: RE 43,990; Dependent Claims	118. The multi-sensor detection system [of claim 103] wherein the cell phone, the smart phone, and the cell phone detector case have a plurality of sensors for detecting at least one of a chemical, biological, radiological, nuclear, explosive and contraband agents and compounds which are capable of being disposed within the cell phone, the smart phone, or the cell phone detector case.
Patent #: 9,589,439; Independent Claim 19	A multi-sensor detection system for detecting at least one explosive, nuclear, contraband, chemical, biological, human, radiological agent, or compound, comprising:
I-Corps: Ultra-Sensitive Lateral Flow Reporters / Lab-on-Phone Platform	The National Science Foundation hereby awards a grant of \$50,000 to University of Houston This project, entitled "I-Corps: Nanophosphors as Ultra-Sensitive Lateral Flow Reporters in a Lab-on-Phone Platform," is under the direction of Richard Willson This award starts August 1, 2014 and ends January 31, 2015 Award: 1450552PI Name: Willson, Richard Award Date: July 25, 2014 ultrasensitive and quantitative measurement of analyte levels from complex samples through LFTs that use only a cell phone's built-in optics and an inexpensive (a few dollars) plastic attachment for readout LFTs are expected to constitute a \$4.68 billion global market in 2015 The enhanced sensitivity of nanophosphor-based LFTs, when coupled to the now-ubiquitous cell phone, is expected to make complex diagnostic tests more accessible and decentralized, thereby improving patient outcomes.

claim 103] wherein the cell phone, the smart phone, and the cell phone detector case have a plurality of sensors for detecting at least one of a chemical, biological, radiological, nuclear, explosive and contraband agents and compounds which are capable of being disposed within the cell phone, the smart phone, or the cell phone detector case.	claim 103] wherein the cell phone, the smart phone, and the cell phone detector case have a plurality of sensors for detecting at least one of a chemical, biological, radiological, nuclear, explosive and contraband agents and compounds which are capable of being disposed within the cell phone, the smart phone, or the cell phone detector case.	92. The multi-sensor detection system [of claim 81], further comprising a global positioning system (GPS) receiver adapted for communication with at least one satellite.
a plurality of sensors for detecting at least one chemical, biological, radiological, explosive, nuclear, human, or contraband agent or compound, capable of being disposed within, on, upon or adjacent a multi-sensor detection device;	monitoring equipment comprising at least one of a computer, personal computer (PC), laptop, notebook PC, handheld, cell phone, personal digital assistant (PDA) or smart phone for at least one of a receipt or transmission of signals therebetween;	at least one cell phone tower interconnected to the monitoring equipment for sending signals thereto and receiving signals therefrom or at least one satellite capable of transmitting signals to the monitoring equipment;
Using human chorionic gonadotropin (HCG) as the model analyte, a disposable LFT cartridge will be coupled to an inexpensive plastic cell phone attachment and software application to provide an ultra-sensitive, objective, quantitative readout of HCG levels in under 20 minutes.	Using human chorionic gonadotropin (HCG) as the model analyte, a disposable LFT cartridge will be coupled to an inexpensive plastic cell phone attachment and software application to provide an ultra-sensitive, objective, quantitative readout of HCG levels in under 20 minutes.	Cellular carriers have extremely precise GPS measurements of the locations of all their towers. With a database of such towers, you can take measurements of the signal strength of those within range—which may be dozens—and trilateration to find an area that overlaps among them. Apple uses AGPS for native GPS-lock improvements, and Wi-Fi network and cell tower locations are additional factors in providing a fast initial connection along with improving GPS accuracy.

25. The communication device [of claim 11] wherein the communication device has at least one of a Bluetooth connection, a Wi-Fi connection, a short and long range radio frequency connection, a Cellular connection, a satellite connection, and a GPS connection.	12. The communication device [of claim 11] wherein each communication device includes at least one of an internet connection, a GPS connection, a radio frequency (RF) connection, or a central processing unit (cpu).	ite; st 92. The multi-sensor detection system [of claim 81], further comprising a global positioning system (GPS) receiver adapted for communication with at least one satellite.
at least one satellite or at least one cell phone tower capable of signal communication between the multi-sensor detection device and the monitoring equipment;	at least one internet connection capable of communication between the multi-sensor detection device and the monitoring equipment;	whereupon a signal sent to a receiver of the multi-sensor detection device from a satellite; or to a cell phone tower; or through at least one of a short range radio frequency or a long range radio frequency; causes a signal to be sent to the monitoring equipment that includes at least one of location data or sensor data;
Every iPhone and iPad ever made has both WiFi and Bluetooth, two wireless technologies for connecting to nearby devices (in the case of Bluetooth) and the internet (in the case of WiFi). The cellular service, originally called 3G and now called LTE; this option allows the iPone to connect to the internet anywhere cell phone works, to check emails.	Every iPhone and iPad ever made has both WiFi and Bluetooth, two wireless technologies for connecting to nearby devices (in the case of Bluetooth) and the internet (in the case of WiFi). The cellular service, originally called 3G and now called LTE; this option allows the iPone to connect to the internet anywhere cell phone works, to check emails.	Cellular carriers have precise GPS measurements of locations of all their towers. With a database of such towers, you can take measurements of the signal strength of those within range and trilateration to find an area that overlaps among them. Apple uses AGPS for native GPS-lock improvements, and Wi-Fi network and cell tower locations are additional factors in providing a fast connection along with improving GPS accuracy.

network of ubiquitous sensing and detecting.

threat; grouping security devices to form a

terrorist, scanning to identify a terrorist

destruction, biometrics for identifying

dollars) plastic attachment for readout...LFTs an inexpensive plastic cell phone attachment and software application to provide an ultradisposable LFT cartridge will be coupled to sensitive, objective, quantitative readout of ultrasensitive and quantitative measurement through LFTs that use only a cell phone's gonadotropin (HCG) as the model analyte, built-in optics and an inexpensive (a few are expected to constitute a \$4.68 billion decentralized, thereby improving patient of analyte levels from complex samples sensitivity of nanophosphor-based LFTs, when coupled to the now-ubiquitous cell global market in 2015...The enhanced phone, is expected to make complex diagnostic tests more accessible and outcomes. Using human chorionic HCG levels in under 20 minutes.

similarities in material composition of at least devices, handheld communication devices...; radiological, nuclear, explosive compounds and agents, detection for weapons of mass security problems of at least one of: theft, elements to form a whole; similarities in one of: steel, stainless steel, composites, plastic, combining of materials parts or brass, copper, aluminum, fiber, silicon, detection for chemical, biological, sensor detection device receives a signal via wherein the monitoring equipment or multiany of one or more products of any product grouping categories;

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124. The multi-sensor detection system [of

into anti-terrorist product groupings based on

communication equipment can be grouped

monitoring, communication devices,

the categories of similarities of design of at

least one of: sensors, software, interfaces,

detector cases, locks, mobile communication

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onginally called 3G and now called L1E; this option allows the iPone to connect to the commun internet anywhere cell phone works, to check receiver of emails.	wherein at reast one of a satelline connection, Bluetooth connection, WiFi connection, internet connection, radio frequency (RF) connection, cellular connection, broadband connection, long range radio frequency (RF) connection is capable of signal communication with the transmitter, a receiver of the monitoring equipment, the multi-sensor detection device, or transceivers of the products;	12. The communication device [of claim 11] wherein each communication device includes at least one of an internet connection, a GPS connection, a radio frequency (RF) connection, or a central processing unit (cpu).
iPhone and iPad Touch ID is a seamless way incorpora to use your fingerprint as a passcode. Your fingerprint is one of the best passcodes in the world. With just a touch of your device's Home button, the Touch ID sensor quickly laptop, the reads your fingerprint and automatically laptop, the unlocks your phone.	wherein the monitoring equipment is equipped with a biometric lock disabler that incorporates at least one of a fingerprint recognition, voice recognition, face recognition, hand geometry, retina scan, iris scan or signature such that the monitoring device that is at least one of the computer, the laptop, the notebook, the PC, the handheld, the cell phone, the PDA, or the smart phone is locked by the biometric lock disabler to prevent unauthorized use;	99. The multi-sensor detection system [of claim 81], wherein the multi sensor detection device is capable of transmitting biometric and authentication data including, but is not limited to, fingerprint recognition, voice recognition, face recognition, hand geometry, retina scan, iris scan, heart rate, pulse and signature.
Every iPhone and iPad ever made has both WiFi and Bluetooth, two wireless technologies for connecting to nearby devices (in the case of Bluetooth) and the internet (in the case of WiFi). The cellular service, option allows the iPone to connect to the internet anywhere cell phone works, to check requency, emails.	wherein the only type or types of communication with the transmitter and the receiver of the communication device and transceivers of the products is a type or types selected from the group consisting of satellite, Bluetooth, WiFi, internet, radio frequency (RF), cellular, broadband, long range radio frequency, and short range radio frequency (RF).	25. The communication device of [claim 11] wherein the communication device has at least one of a Bluetooth connection, a Wi-Fi connection, a short and long range radio frequency connection, a Cellular connection, a satellite connection, and a GPS connection.

Patent #: RE 43,990; Dependent Claims	 30. The communication device [of claim 11] wherein the communication device is designed to be used with or without biometrics for authentication and identification, with at least one of a fingerprint recognition, voice recognition, face recognition, hand geometry, retina scan, iris scan, heart rate, pulse or signature 99. The multi-sensor detection system [of claim 81], wherein the multi sensor detection device is capable of transmitting biometric and authentication data including, but is not limited to, fingerprint recognition, voice recognition, face recognition, hand geometry, retina scan, iris scan, heart rate, pulse and signature. 118. The multi-sensor detection system [of claim 103] wherein the cell phone, the smart phone, and the cell phone detector case have a plurality of sensors for detecting at least one of a chemical, biological, capable of being disposed within the cell phone, the smart phone, or the cell phone detector case.
Patent #: 9,096,189; Independent Claim 1	A communication device of at least one of a cell phone, a smart phone, a desktop, a handheld, a PDA, a laptop, or a computer terminal for monitoring products, interconnected to a product for communication therebetween, comprising:
Apple's iPhone / iPad Camera Biosensor for Facial Heart Rate Monitor	A new iPhone app turns your device's camera into a biosensor to measure your heart rate. The app from the Rock Health accelerator program is called Cardiio. The technology was developed by spouses Yukkee and Ming-Zher Poh at MIT's Media Lab. Cardiio is powered by cutting-edge research and science conducted at the MIT Media Lab. Every time your face. This slight increase in blood volume causes more light to be absorbed, and hence less light is reflected from your face. Cardiio uses your camera to track these tiny changes in reflected light that are not visible to the human eye and calculate your heart beat. Measurement accuracy is within 3 beat. Measurement accuracy is within 3 beats/min of a clinical pulse oximeter when performed at rest in a well-lit environment. Cardiio works: look straight into the front camera of your iPhone/iPad to measure your heart rate from a distance. After a user downloads the app, they hold the iPhone or iPad up to their face in a well-lit area, hold steady for a few seconds, and receive their resting heart rate.

at least one of a central processing unit (CPU) for executing and carrying out the instructions of a computer program, a network processor wherein each communication device includes at least one of an internet connection, a GPS connection domain, or a front end processor for communication between a host computer and other devices;	and wherein the communication device [of claim 11] wherein the communication device can send and receive signals, send and receive data, information and report the status of the sensors and operational equipment systems to and from a cell phone, smart phone, PDA or handheld device.	28. The communication device [of claim 11] wherein the communication device can send and receive signals, send and receive time and receive data, information and report the status of the sensors and operational equipment systems to and from a cell phone, smart phone, PDA or handheld device.
1 12 13	a transmitter for transmitting signals and messages to at least one of plurality product groups based on the categories of a multisensor detection device, a maritime cargo container, a cell phone detection device, or a locking device	a receiver for receiving signals, data or messages from at least one of plurality product groups based on the categories of a multi-sensor detection device, a maritime cargo container, a cell phone detection device, or a locking device;
Apple chip A8X delivers better CPU and graphics performance than its predecessor. With its 64-bit desktop-class architecture, iPad Air 2 is as powerful as many personal computers. It's power efficient, too, with a 10-hour battery life. The iPhone 6's A8 processor has a dual-core model like the A7, but clocked at a higher frequency. The iPhone 6 has a 2GHz dual-core 20nm 64-bit A8 CPU.	If your iPhone, iPad, or iPod touch is lost or stolen. Turn on Lost Mode. Using Lost Mode, a person can remotely lock the device with a four-digit passcode, and display a custom message with your phone number on your missing device's Lock screen	If your iPhone, iPad, or iPod touch is lost or stolen. Turn on Lost Mode. Using Lost Mode, a person can remotely lock the device with a four-digit passcode, and display a custom message with your phone number on your missing device's Lock screen

Every iPhone and iPad ever made has both WiFi and Bluetooth, two wireless technologies for connecting to nearby devices (in the case of Bluetooth) and the internet (in the case of WiFi). The cellular service, originally called 3G and now called LTE; this option allows the iPone to connect to the internet anywhere cell phone works, to check emails.	at least one satellite connection, Bluetooth connection, WiFi connection, internet connection, radio frequency (RF) connection, cellular connection, broadband connection, long and short range radio frequency (RF) connection, or GPS connection;	25. The communication device [of claim 11] wherein the communication device has at least one of a Bluetooth connection, a Wi-Fi connection, a short and long range radio frequency connection, a Cellular connection, a satellite connection, and a GPS connection.
Every iPhone and iPad ever made has both WiFi and Bluetooth, two wireless technologies for connecting to nearby devices (in the case of Bluetooth) and the internet (in the case of WiFi).	the communication device is at least a fixed, portable or mobile communication device interconnected to a fixed, portable or mobile product, capable of wired or wireless communication therebetween;	20. The communication device [of claim 11] wherein the communication device can be interconnected through wire or wireless for communication, signals, commands and transmission of data.
If your iPhone, iPad, or iPod touch is lost or stolen. Turn on Lost Mode. Using Lost Mode, rea person can remotely lock the device with a four-digit passcode, and display a custom message with your phone number on your display a custom missing device's Lock screen	whereupon the communication device, is interconnected to a product equipped to eceive signals from or send signals to lock or unlock doors, activate or deactivate security systems, activate or deactivate multi-sensor detection systems, or to activate or deactivate cell phone detection systems;	28. The communication device [of claim 11] wherein the communication device can send and receive signals, send and receive warnings, send and receive commands, send and receive data, information and report the status of the sensors and operational equipment systems to and from a cell phone, smart phone, PDA or handheld device.

A new iPhone app turns your device's camera into a biosensor to measure your heart rate. The app from the Rock Health accelerator properties that are now to receive the are monitoring, communication devices that are nowing products to be monitored, the devices that are nowing products to be monitored, the devices that are nowing changes in the factor to sease, locks, mobile communication devices, lock and the are not visible to the design of a clinical pulse oximers when performed at rest in a well-life around the camera of your bloome'ble to measure your heart hear of a clinical pulse oximers when performed at rest in a well-life around the camera of your bloome'ble to measure your heart hear of the plurality of product grouping at rest in a well-life around the camera of a clinical pulse oximers when performed at rest in a well-life around the camera of the camera of a clinical pulse oximers when performed at rest in a well-life around the camera of t			
wherein at least one satellite connection, Bluetooth connection, WiFi connection, internet connection, radio frequency (RF) connection, cellular connection, broadband connection, long and short range radio frequency (RF) connection is capable of signal communication with the transmitter and the receiver of the communication device and transceivers of the products;	The state of the s		32. The communication device [of claim 11] wherein the communication device having products to be monitored, the devices that are monitoring, communication devices, communication equipment can be grouped into anti-terrorist product groupings based on the categories of similarities of design of at least one of; sensors, software, interfaces, detector cases, locks, mobile communication devices, vehicle slowing and stopping devices, specification, development and implementation; similarities in material composition; similarities in security problems of at least one of; theft, detection for chemical, biological, radiological, nuclear, explosive compounds and agents, detection for weapons of mass destruction, biometrics for identifying terrorist, scanning to identify a terrorist threat; grouping security devices to form a network of ubiquitous sensing and detecting.
	iPad ever made has both etooth, two wireless mecting to nearby devices stooth) and the internet (in i). The cellular service, i and now called LTE; this illone to connect to the cell phone works, to check emails.	wherein at least one satellite connection, Bluetooth connection, WiFi connection, internet connection, radio frequency (RF) connection, cellular connection, broadband connection, long and short range radio frequency (RF) connection is capable of signal communication with the transmitter and the receiver of the communication device and transceivers of the products;	25. The communication device [of claim 11] wherein the communication device has at least one of a Bluetooth connection, a Wi-Fi connection, a short and long range radio frequency connection, a Cellular connection, a satellite connection, and a GPS connection.

Apple's "Touch ID"; a fingerprint identity sensor that makes it easy to get into the iPad device. The biometric "Touch ID" is used with the iPhone 5s or later, iPad Pro, iPad Air 2, or iPad mini 3 or later. Figure 1 image from the 2008 Apple patent 20100082444 showing NFC Logo and fingerprint scanner (e.g., NFC + Fingerprint Scanner). The image displays the NFC Logo at the top and the Fingerprint Sensor at the bottom. The image is from published patent application 20100082444 filed on September 30, 2008 and is now patent [9,026,462] issued May 05, 2015. In this patent Apple speaks a great deal about biometrics and more directly fingerprint scanner built into the face of the illustrated Apple iPhone (#45)	wherein the communication device is equipped with a biometric lock disabler that incorporates at least one of a fingerprint recognition, voice recognition, face recognition, hand geometry, retina scan, iris scan and signature such that the communication device that is at least one of the cell phone, the smart phone, the desktop, the handheld, the PDA, the laptop or the computer terminal is locked by the biometric lock disabler to prevent unauthorized use;	30. The communication device [of claim 11] wherein the communication device is designed to be used with or without biometrics for authentication and identification, with at least one of a fingerprint recognition, voice recognition, face recognition, hand geometry, retina scan, iris scan, heart rate, pulse or signature, thereby allowing access to the product by authorized, trained, and equipped individuals and preventing access to the product by unauthorized, untrained, and unequipped individuals.
Every iPhone and iPad ever made has both WiFi and Bluetooth, two wireless technologies for connecting to nearby devices (in the case of Bluetooth) and the internet (in the case of WiFi). The cellular service, originally called 3G and now called LTE; this option allows the iPone to connect to the internet anywhere cell phone works, to check emails.	wherein the only type or types of communication with the transmitter and the receiver of the communication device and transceivers of the products is a type or types selected from the group consisting of satellite, Bluetooth, WiFi, internet, radio frequency (RF), cellular, broadband, and long and short range radio frequency (RF).	25. The communication device of [claim 11] wherein the communication device has at least one of a Bluetooth connection, a Wi-Fi connection, a short and long range radio frequency connection, a Cellular connection, a satellite connection, and a GPS connection.

Apple's iPhone 5, 5c, 5s, 6, 6 Plus and the iPad interconnected to the Apple Watch	Patent #: 9,096,189; Independent Claim 1	Patent #: RE 43,990; Dependent Claims
The Apple Watch (e.g. multi-sensor detection		25. The communication device [of claim 11]
device: interconnected to monitoring		wherein the communication device has at
equipment - iPhone / iPad; biosensor for		least one of a Bluetooth connection, a Wi-Fi
detecting heart rate; leveraged internet and		connection, a short and long range radio
3PS connections; power source battery; CPU;		frequency connection, a Cellular connection,
light indicators) The heart rate sensor in		a satellite connection, and a GPS connection.
Apple Watch uses photoplethysmography		
(heart rate (HR) and pulse oximeter oxygen		95. The multi-sensor detection system [of
saturation (SpO2) from wearable		claim 81], wherein the multi sensor detection
photoplethysmographic (PPG) biosensors).		device is capable of transmitting
Technology based: Blood is red because it	A communication device of at least one of a	identification data, location data, speed data,
reflects red light and absorbs green light.	cell phone, a smart phone, a desktop, a	environment data, power data, and sensor
Apple Watch uses green LED lights paired	handheld, a PDA, a laptop, or a computer	data.
with light sensitive photodiodes to detect the	terminal for monitoring products,	
amount of blood flowing through your wrist.	interconnected to a product for	99. The multi-sensor detection system [of
When heart beats, the green light absorption	communication therebetween, comprising:	claim 81], wherein the multi sensor detection
is greater. By flashing its LED lights, Apple		device is capable of transmitting biometric
Watch can calculate the number of times the		and authentication data including, but is not
heart beats each minute; your heart rate.		limited to, fingerprint recognition, voice
Apple Watch requires an iPhone 5, 5c, 5s, 6,		recognition, face recognition, hand geometry,
and 6 Plus. Apple Watch Bluetooth and Wi-		retina scan, iris scan, heart rate, pulse and
Fi; therefore Apple Watch can 'speak' to the		signature.
iPad. Apple Watch uses GPS and Wi-Fi to		
track distance; running indoors it uses		
accelerometer; cycling outdoors, it uses GPS.		

at least one of a central processing unit (CPU) for executing and carrying out the instructions of a computer program, a network processor which is specifically targeted at the processor for communication domain, or a front end processor for communication between a host computer and other devices;	28. The communication device [of claim 11] wherein the communication device can send and receive signals, send and receive warnings, send and receive commands, send and receive data, information and report the status of the sensors and operational equipment systems to and from a cell phone, smart phone, PDA or handheld device.	28. The communication device [of claim 11] wherein the communication device can send and receive signals, send and receive warnings, send and receive commands, send and receive data, information and report the status of the sensors and operational equipment systems to and from a cell phone, smart phone, PDA or handheld device.
at least one of a central processing unit (CPU) for executing and carrying out the instructions of a computer program, a network processor which is specifically targeted at the networking application domain, or a front end processor for communication between a host computer and other devices;	a transmitter for transmitting signals and messages to at least one of plurality product groups based on the categories of a multisensor detection device, a maritime cargo container, a cell phone detection device, or a locking device	a receiver for receiving signals, data or messages from at least one of plurality product groups based on the categories of a multi-sensor detection device, a maritime cargo container, a cell phone detection device, or a locking device;
Apple chip A8X delivers better CPU and graphics performance than its predecessor. With its 64-bit desktop-class architecture, iPad Air 2 is as powerful as many personal computers. It's power efficient, too, with a 10-hour battery life. The iPhone 6's A8 processor has a dual-core model like the A7, but clocked at a higher frequency. The iPhone 6 has a 2GHz dual-core 20nm 64-bit A8 CPU.	If your iPhone, iPad, or iPod touch is lost or stolen. Turn on Lost Mode. Using Lost Mode, a person can remotely lock the device with a four-digit passcode, and display a custom message with your phone number on your missing device's Lock screen	If your iPhone, iPad, or iPod touch is lost or stolen. Turn on Lost Mode. Using Lost Mode, a person can remotely lock the device with a four-digit passcode, and display a custom message with your phone number on your missing device's Lock screen

h 25. The communication device [of claim 11] wherein the communication device has at on, least one of a Bluetooth connection, a Wi-Fi connection, a short and long range radio frequency connection, a Cellular connection, a satellite connection, and a GPS connection.	ed, 20. The communication device [of claim 11] wherein the communication device can be interconnected through wire or wireless for communication, signals, commands and transmission of data.	28. The communication device [of claim 11] wherein the communication device can send and receive signals, send and receive warnings, send and receive commands, send and receive data, information and report the status of the sensors and operational equipment systems to and from a cell phone, smart phone, PDA or handheld device.
at least one satellite connection, Bluetooth connection, WiFi connection, internet connection, radio frequency (RF) connection, cellular connection, broadband connection, long and short range radio frequency (RF) connection, or GPS connection;	the communication device is at least a fixed, portable or mobile communication device interconnected to a fixed, portable or mobile product, capable of wired or wireless communication therebetween;	whereupon the communication device, is interconnected to a product equipped to receive signals from or send signals to lock or unlock doors, activate or deactivate security systems, activate or deactivate multi-sensor detection systems, or to activate or deactivate cell phone detection systems;
Every iPhone and iPad ever made has both WiFi and Bluetooth, two wireless technologies for connecting to nearby devices (in the case of Bluetooth) and the internet (in the case of WiFi). The cellular service, originally called 3G and now called LTE; this option allows the iPone to connect to the internet anywhere cell phone works, to check emails.	Every iPhone and iPad ever made has both WiFi and Bluetooth, two wireless technologies for connecting to nearby devices (in the case of Bluetooth) and the internet (in the case of WiFi).	If your iPhone, iPad, or iPod touch is lost or stolen. Turn on Lost Mode. Using Lost Mode, a person can remotely lock the device with a four-digit passcode, and display a custom message with your phone number on your missing device's Lock screen

products to be monitored, the devices that are to identify a terrorist threat; grouping security into anti-terrorist product groupings based on detector cases, locks, mobile communication biometrics for identifying terrorist, scanning 32. The communication device [of claim 11] the categories of similarities of design of at problems of at least one of; theft, detection detection for weapons of mass destruction, wherein the communication device having communication equipment can be grouped devices, handheld communication devices, nuclear, explosive compounds and agents, least one of; sensors, software, interfaces, devices to form a network of ubiquitous implementation; similarities in material composition...; similarities in security vehicle slowing and stopping devices, for chemical, biological, radiological, monitoring, communication devices, specification, development and sensing and detecting. wherein the communication device receives a signal via any of one or more products listed in any of the plurality of product grouping categories When your heart beats, the blood flow in your speaking' to the iPad. The Apple Watch uses from wearable photoplethysmographic (PPG) Watch can calculate the number of times the Plus. Apple Watch communicates through a amount of blood flowing through your wrist. wrist and the green light absorption is greater Watch requires an iPhone 5, 5c, 5s, 6, and 6 wouldn't be any issue with the Apple Watch accelerometer; cycling outdoors, it uses GPS The heart rate sensor can also use green and lights hundreds of times per second, Apple photoplethysmography (heart rate (HR) and biosensors). Blood is red because it reflects combination of Bluetooth and Wi-Fi; there heart beats each minute; heart rate. Apple The heart rate sensor in Apple Watch uses Watch uses green LED lights paired with Between beats, less. By flashing its LED pulse oximeter oxygen saturation (SpO2) red light and absorbs green light. Apple light sensitive photodiodes to detect the GPS and Wi-Fi in the iPhone to track distance; running indoors it uses red infrared LEDs.

25. The communication device [of claim 11] wherein the communication device has at least one of a Bluetooth connection, a Wi-Fi connection, a short and long range radio frequency connection, a Cellular connection, a satellite connection, and a GPS connection.	30. The communication device [of claim 11] wherein the communication device is designed to be used with or without biometrics for authentication and identification, with at least one of a fingerprint recognition, voice recognition, face recognition, hand geometry, retina scan, iris scan, heart rate, pulse or signature, thereby allowing access to the product by authorized, trained, and equipped individuals and preventing access to the product by unauthorized, untrained, and unequipped individuals.
wherein at least one satellite connection, Bluetooth connection, WiFi connection, internet connection, radio frequency (RF) connection, cellular connection, broadband connection, long and short range radio frequency (RF) connection is capable of signal communication with the transmitter and the receiver of the communication device and transceivers of the products;	wherein the communication device is equipped with a biometric lock disabler that incorporates at least one of a fingerprint recognition, voice recognition, face recognition, hand geometry, retina scan, iris scan and signature such that the communication device that is at least one of the cell phone, the smart phone, the desktop, the handheld, the PDA, the laptop or the computer terminal is locked by the biometric lock disabler to prevent unauthorized use;
Every iPhone and iPad ever made has both WiFi and Bluetooth, two wireless technologies for connecting to nearby devices (in the case of Bluetooth) and the internet (in the case of WiFi). The cellular service, originally called 3G and now called LTE; this option allows the iPone to connect to the internet anywhere cell phone works, to check emails.	Apple's "Touch ID"; a fingerprint identity sensor that makes it easy to get into the iPad device. The biometric "Touch ID" is used with the iPhone 5s or later, iPad Pro, iPad Air 2, or iPad mini 3 or later. Figure 1 image from the 2008 Apple patent 20100082444 showing NFC Logo and fingerprint scanner (e.g., NFC + Fingerprint Scanner). The image displays the NFC Logo at the top and the Fingerprint Sensor at the bottom. The image is from published patent application 20100082444 filed on September 30, 2008 and is now patent [9,026,462] issued May 05, 2015. In this patent Apple speaks a great deal about biometrics and more directly fingerprint scanner built into the face of the illustrated Apple iPhone (#45)

	Every iPhone and iPad ever made has both	wherein the only type or types of	
	Will did Directorin, two wirests	communication with the transmitter and the	25. The communication device of [claim 11]
	Gentionogies for connecting to incarry actives	receiver of the communication device and	wherein the communication device has at
	(in the case of Dinewoull) and the interface (in	transceivers of the products is a type or types least one of a Bluetooth connection, a Wi-Fi	least one of a Bluetooth connection, a Wi-Fi
	the case of wift). The cellular service,	selected from the group consisting of satellite,	connection, a short and long range radio
	originally called 3G and flow called LIE; uns		frequency connection, a Cellular connection,
-	option allows the 1Fone to connect to the	(RF), cellular, broadband, and long and short a satellite connection, and a GPS connection.	a satellite connection, and a GPS connection.
	internet anywhere cell phone works, to check		
	emails.	·/ ··· / farrantary promy affirms	

Apple's iPhone / iPad (monitoring equipment); Apple Watch (detection device); interconnected to the August Smart Lock (locking device)	Patent #: 9,096,189; Independent Claim 1	Patent #: RE 43,990; Dependent Claims
August Smart Lock (e.g. locking device): Apple Watch (e.g. detection device) just got another tool to make life easier: a digital door key on their wrists. Initiate a lock or unlock from your Apple Watch with just a swipe and a tap. Apple Watch requires an iPhone and/or iPad (e.g. monitoring equipment). The functionality comes via the August Smart Lock thanks to an update of the company's iPhone app that allows you to swipe and tap your Apple Watch to open an August Smart Lock-equipped door. Although the Apple Watch functionality is essentially just a porting of August's iPhone app to your wrist, it immediately makes the notion of using the smart door lock a lot more practical and faster than digging your iPhone out to open a door. Starwood hotels made news when it allowed guests to use the Apple Watch to open hotel room doors in roughly 100 of its locations. But August's solution brings the Apple Watch - powered smart home dynamic to the mainstream. The Apple Watch app also instantly sends a notification when someone unlocks your door.	A communication device of at least one of a cell phone, a smart phone, a desktop, a handheld, a PDA, a laptop, or a computer terminal for monitoring products, interconnected to a product for communication therebetween, comprising:	 22. The communication device [of claim 11] wherein equipped with applications for the locking, disabling a lock, enabling a lock, and unlocking the locks of, but not limited to, containers, vehicles, houses and businesses, using a smart phone, cell phone, PDA, laptop or desktop. 46. The lock disabler system [of claim 33] wherein applications for the locking, disabling a lock, enabling a lock, and unlocking the locks of, but not limited to, containers, vehicles, houses and businesses, using a smart phone, cell phone, PDA, laptop or desktop. 80. The built-in, embedded multi sensor detection system [of claim 74] wherein the product includes at least one of a built-in, embedded detector case, sensor array, central processing unit (CPU), power source of fuel, electric, solar or battery, remote internal or external lock disabler, biometric reader, camera, light, video, or interface.

Apple chip A8X delivers better CPU and graphics performance than its predecessor. With its 64-bit desktop-class architecture, iPad Air 2 is as powerful as many personal computers. It's power efficient, too, with a 10-hour battery life. The iPhone 6's A8 processor has a dual-core model like the A7, but clocked at a higher frequency. The iPhone 6 has a 2GHz dual-core 20nm 64-bit A8 CPU.	at least one of a central processing unit (CPU) for executing and carrying out the instructions of a computer program, a network processor which is specifically targeted at the networking application domain, or a front end processor for communication between a host computer and other devices;	12. The communication device [of claim 11] wherein each communication device includes at least one of an internet connection, a GPS connection, a radio frequency (RF) connection, or a central processing unit (cpu).
If your iPhone, iPad, or iPod touch is lost or stolen. Turn on Lost Mode. Using Lost Mode, a person can remotely lock the device with a four-digit passcode, and display a custom message with your phone number on your missing device's Lock screen	a transmitter for transmitting signals and messages to at least one of plurality product groups based on the categories of a multisensor detection device, a maritime cargo container, a cell phone detection device, or a locking device	28. The communication device [of claim 11] wherein the communication device can send and receive signals, send and receive warnings, send and receive commands, send and receive data, information and report the status of the sensors and operational equipment systems to and from a cell phone, smart phone, PDA or handheld device.
If your iPhone, iPad, or iPod touch is lost or stolen. Turn on Lost Mode. Using Lost Mode, a person can remotely lock the device with a four-digit passcode, and display a custom message with your phone number on your missing device's Lock screen	a receiver for receiving signals, data or messages from at least one of plurality product groups based on the categories of a multi-sensor detection device, a maritime cargo container, a cell phone detection device, or a locking device;	28. The communication device [of claim 11] wherein the communication device can send and receive signals, send and receive warnings, send and receive commands, send and receive data, information and report the status of the sensors and operational equipment systems to and from a cell phone, smart phone, PDA or handheld device.

Every iPhone and iPad ever made has both WiFi and Bluetooth, two wireless technologies for connecting to nearby devices (in the case of Bluetooth) and the internet (in the case of WiFi). The cellular service, originally called 3G and now called LTE; this option allows the iPone to connect to the internet anywhere cell phone works, to check emails.	at least one satellite connection, Bluetooth connection, WiFi connection, internet connection, radio frequency (RF) connection, cellular connection, broadband connection, long and short range radio frequency (RF) connection, or GPS connection;	25. The communication device [of claim 11] wherein the communication device has at least one of a Bluetooth connection, a Wi-Fi connection, a short and long range radio frequency connection, a Cellular connection, a satellite connection, and a GPS connection.
Every iPhone and iPad ever made has both WiFi and Bluetooth, two wireless technologies for connecting to nearby devices (in the case of Bluetooth) and the internet (in the case of WiFi).	the communication device is at least a fixed, portable or mobile communication device interconnected to a fixed, portable or mobile product, capable of wired or wireless communication therebetween;	20. The communication device [of claim 11] wherein the communication device can be interconnected through wire or wireless for communication, signals, commands and transmission of data.
If your iPhone, iPad, or iPod touch is lost or stolen. Turn on Lost Mode. Using Lost Mode, a person can remotely lock the device with a four-digit passcode, and display a custom message with your phone number on your missing device's Lock screen	whereupon the communication device, is interconnected to a product equipped to receive signals from or send signals to lock or unlock doors, activate or deactivate security systems, activate or deactivate multi-sensor detection systems, or to activate or deactivate cell phone detection systems;	28. The communication device [of claim 11] wherein the communication device can send and receive signals, send and receive warnings, send and receive commands, send and receive data, information and report the status of the sensors and operational equipment systems to and from a cell phone, smart phone, PDA or handheld device.

32. The communication device [of claim 11] wherein the communication device having products to be monitored, the devices that are monitoring, communication devices,	communication equipment can be grouped into anti-terrorist product groupings based on the categories of similarities of design of at least one of; sensors, software, interfaces, detector cases, locks, mobile communication devices, vehicle slowing and stopping devices, specification, development and implementation; similarities in material composition; similarities in security problems of at least one of; theft, detection for chemical, biological, radiological, nuclear, explosive compounds and agents, detection for weapons of mass destruction, biometrics for identifying terrorist, scanning to identify a terrorist threat; grouping security devices to form a network of ubiquitous sensing and detecting.
	wherein the communication device receives a signal via any of one or more products listed in any of the plurality of product grouping categories;
August Smart Lock (e.g. locking device): Apple Watch (e.g. detection device) just got another tool to make life easier: a digital door key on their wrists. Initiate a lock or unlock from your Apple Watch with just a swipe and a tap. Apple Watch requires an iPhone and/or	functionality comes via the August Smart Lock thanks to an update of the company's iPhone app that allows you to swipe and tap your Apple Watch to open an August Smart Lock-equipped door. Although the Apple Watch functionality is essentially just a porting of August's iPhone app to your wrist, it immediately makes the notion of using the smart door lock a lot more practical and faster than digging your iPhone out to open a door. Starwood hotels made news when it allowed guests to use the Apple Watch to open hotel room doors in roughly 100 of its locations. But August's solution brings the Apple Watch - powered smart home dynamic to the mainstream. The Apple Watch app also instantly sends a notification when someone unlocks your door.

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25. The communication device [of claim 11] wherein the communication device has at least one of a Bluetooth connection, a Wi-Fi connection, a short and long range radio frequency connection, a Cellular connection, a satellite connection, and a GPS connection.	30. The communication device [of claim 11] wherein the communication device is designed to be used with or without biometrics for authentication and identification, with at least one of a fingerprint recognition, voice recognition, face recognition, hand geometry, retina scan, iris scan, heart rate, pulse or signature, thereby allowing access to the product by authorized, trained, and equipped individuals and preventing access to the product by unauthorized, untrained, and unequipped individuals.
wherein at least one satellite connection, Bluetooth connection, WiFi connection, internet connection, radio frequency (RF) connection, cellular connection, broadband connection, long and short range radio frequency (RF) connection is capable of signal communication with the transmitter and the receiver of the communication device and transceivers of the products;	wherein the communication device is equipped with a biometric lock disabler that incorporates at least one of a fingerprint recognition, voice recognition, face recognition, hand geometry, retina scan, iris scan and signature such that the communication device that is at least one of the cell phone, the smart phone, the desktop, the handheld, the PDA, the laptop or the computer terminal is locked by the biometric lock disabler to prevent unauthorized use;
Every iPhone and iPad ever made has both WiFi and Bluetooth, two wireless technologies for connecting to nearby devices (in the case of Bluetooth) and the internet (in the case of WiFi). The cellular service, originally called 3G and now called LTE; this option allows the iPone to connect to the internet anywhere cell phone works, to check emails.	Apple's "Touch ID"; a fingerprint identity sensor that makes it easy to get into the iPad device. The biometric "Touch ID" is used with the iPhone 5s or later, iPad Pro, iPad Air 2, or iPad mini 3 or later. Figure 1 image from the 2008 Apple patent 20100082444 showing NFC Logo and fingerprint scanner (e.g., NFC + Fingerprint Scanner). The image displays the NFC Logo at the top and the Fingerprint Sensor at the bottom. The image is from published patent application 20100082444 filed on September 30, 2008 and is now patent [9,026,462] issued May 05, 2015. In this patent Apple speaks a great deal about biometrics and more directly fingerprint scanner built into the face of the illustrated Apple iPhone (#45)

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Every iPhone and iPad ever made has both	WiFi and Bluetooth, two wireless	technologies for connecting to nearby devices	(in the case of Bluetooth) and the internet (in	the case of WiFi). The cellular service,	originally called 3G and now called LTE; this	option allows the iPone to connect to the	internet anywhere cell phone works, to check	emails.

frequency connection, a Cellular connection, a satellite connection, and a GPS connection. 25. The communication device of [claim 11] least one of a Bluetooth connection, a Wi-Fi wherein the communication device has at ceivers of the products is a type or types ed from the group consisting of satellite, , cellular, broadband, and long and short munication with the transmitter and the eiver of the communication device and etooth, WiFi, internet, radio frequency wherein the only type or types of range radio frequency (RF).

connection, a short and long range radio

Apple's iPhone / iPad (monitoring equipment); Apple's HomeKit (interface / gateway); August Connect (interface / gateway); interconnected to the August Smart Lock (locking device)	Patent #: 9,096,189; Independent Claim 1	Patent #: RE 43,990; Dependent Claims
way): Lock August m your with nd iOS KitTM on your ock and August ans an ned to or iPad ugust Smart works d app. te and Smart we and Smart r peace as you	A communication device of at least one of a cell phone, a smart phone, a desktop, a handheld, a PDA, a laptop, or a computer terminal for monitoring products, interconnected to a product for communication therebetween, comprising:	wherein equipped with applications for the locking, disabling a lock, enabling a lock, and unlocking the locks of, but not limited to, containers, vehicles, houses and businesses, using a smart phone, cell phone, PDA, laptop or desktop. 46. The lock disabler system [of claim 33] wherein applications for the locking, disabling a lock, enabling a lock, and unlocking the locks of, but not limited to, containers, vehicles, houses and businesses, using a smart phone, cell phone, PDA, laptop or desktop. 80. The built-in, embedded multi sensor detection system [of claim 74] wherein the product includes at least one of a built-in, embedded detector case, sensor array, central processing unit (CPU), power source of fuel, electric, solar or battery remote internal or external lock disabler, biometric reader, camera, light, video, or interface.

Apple chip A8X delivers better CPU and graphics performance than its predecessor. With its 64-bit desktop-class architecture, iPad Air 2 is as powerful as many personal computers. It's power efficient, too, with a 10-hour battery life. The iPhone 6's A8 processor has a dual-core model like the A7, but clocked at a higher frequency. The iPhone 6 has a 2GHz dual-core 20nm 64-bit A8 CPU.	for executing and carrying out the instructions of a computer program, a network processor which is specifically targeted at the networking application domain, or a front end processor for communication between a host computer and other devices;	12. The communication device [of claim 11] wherein each communication device includes at least one of an internet connection, a GPS connection, a radio frequency (RF) connection, or a central processing unit (cpu).
If your iPhone, iPad, or iPod touch is lost or stolen. Turn on Lost Mode. Using Lost Mode, a person can remotely lock the device with a four-digit passcode, and display a custom message with your phone number on your missing device's Lock screen	a transmitter for transmitting signals and messages to at least one of plurality product groups based on the categories of a multisensor detection device, a maritime cargo container, a cell phone detection device, or a locking device	28. The communication device [of claim 11] wherein the communication device can send and receive signals, send and receive warnings, send and receive commands, send and receive data, information and report the status of the sensors and operational equipment systems to and from a cell phone, smart phone, PDA or handheld device.
If your iPhone, iPad, or iPod touch is lost or stolen. Turn on Lost Mode. Using Lost Mode, a person can remotely lock the device with a four-digit passcode, and display a custom message with your phone number on your missing device's Lock screen	a receiver for receiving signals, data or messages from at least one of plurality product groups based on the categories of a multi-sensor detection device, a maritime cargo container, a cell phone detection device, or a locking device;	28. The communication device [of claim 11] wherein the communication device can send and receive signals, send and receive warnings, send and receive commands, send and receive data, information and report the status of the sensors and operational equipment systems to and from a cell phone, smart phone, PDA or handheld device.

Every iPhone and iPad ever made has both WiFi and Bluetooth, two wireless technologies for connecting to nearby devices (in the case of Bluetooth) and the internet (in the case of WiFi). The cellular service, originally called 3G and now called LTE; this option allows the iPone to connect to the internet anywhere cell phone works, to check emails.	at least one satellite connection, Bluetooth connection, WiFi connection, internet connection, radio frequency (RF) connection, cellular connection, broadband connection, long and short range radio frequency (RF) connection, or GPS connection;	25. The communication device [of claim 11] wherein the communication device has at least one of a Bluetooth connection, a Wi-Fi connection, a short and long range radio frequency connection, a Cellular connection, a satellite connection, and a GPS connection.
Every iPhone and iPad ever made has both WiFi and Bluetooth, two wireless technologies for connecting to nearby devices (in the case of Bluetooth) and the internet (in the case of WiFi).	the communication device is at least a fixed, portable or mobile communication device interconnected to a fixed, portable or mobile product, capable of wired or wireless communication therebetween;	20. The communication device [of claim 11] wherein the communication device can be interconnected through wire or wireless for communication, signals, commands and transmission of data.
If your iPhone, iPad, or iPod touch is lost or stolen. Turn on Lost Mode. Using Lost Mode, a person can remotely lock the device with a four-digit passcode, and display a custom message with your phone number on your missing device's Lock screen	whereupon the communication device, is interconnected to a product equipped to receive signals from or send signals to lock or unlock doors, activate or deactivate security systems, activate or deactivate multi-sensor detection systems, or to activate or deactivate cell phone detection systems;	28. The communication device [of claim 11] wherein the communication device can send and receive signals, send and receive warnings, send and receive commands, send and receive data, information and report the status of the sensors and operational equipment systems to and from a cell phone, smart phone, PDA or handheld device.

August Connect (e.g. interface / gateway): Accessory product to August Smart Lock (e.g. locking device) and unlock your August Smart Lock from anywhere, right from your iOS or Android smartphone. Works with August App. Available for Android and iOS devices. Works with Apple® HomeKitTM (e.g. interface / gateway). Use Siri® on your iPhone®, iPad® or iPod touch® to lock and unlock, and check the status of your August Smart Lock. (The HomeKit logo means an electronic accessory has been designed to connect specifically to iPod, iPhone, or iPad e.g. monitoring equipment). The August Smart Lock, and part of the August Smart Home Access System. August Connect requires an August Smart Lock and works with the free August iOS or Android app. Uses Wi-Fi to connect to your phone and Bluetooth to connect to the August Smart Lock. No more fumbling for keys. August Smart Lock auto-locks behind you for peace	wherein the communication device receives a signal via any of one or more product listed in any of the plurality of product grouping categories;	32. The communication device [of claim 11] wherein the communication device having products to be monitored, the devices that are monitoring, communication devices, communication equipment can be grouped into anti-terrorist product groupings based on the categories of similarities of design of at least one of; sensors, software, interfaces, detector cases, locks, mobile communication devices, vehicle slowing and stopping devices, specification, development and implementation; similarities in material composition; similarities in security problems of at least one of; theft, detection for chemical, biological, radiological, nuclear, explosive compounds and agents, detection for weapons of mass destruction, biometrics for identifying terrorist, scanning to identify a terrorist threat; grouping security devices to form a network of ubiquitous
of mind and automatically unlocks as you approach.		sensing and detecting.

25. The communication device [of claim 11] wherein the communication device has at least one of a Bluetooth connection, a Wi-Fi connection, a short and long range radio frequency connection, a Cellular connection, a satellite connection, and a GPS connection.	30. The communication device [of claim 11] wherein the communication device is designed to be used with or without biometrics for authentication and identification, with at least one of a fingerprint recognition, voice recognition, face recognition, hand geometry, retina scan, iris scan, heart rate, pulse or signature, thereby allowing access to the product by authorized, trained, and equipped individuals and preventing access to the product by unauthorized, untrained, and unequipped individuals.
wherein at least one satellite connection, Bluetooth connection, WiFi connection, internet connection, radio frequency (RF) connection, cellular connection, broadband connection, long and short range radio frequency (RF) connection is capable of signal communication with the transmitter and the receiver of the communication device and transceivers of the products;	wherein the communication device is equipped with a biometric lock disabler that incorporates at least one of a fingerprint recognition, hand geometry, retina scan, iris scan and signature such that the communication device that is at least one of the cell phone, the smart phone, the desktop, the handheld, the PDA, the laptop or the computer terminal is locked by the biometric lock disabler to prevent unauthorized use;
Every iPhone and iPad ever made has both WiFi and Bluetooth, two wireless technologies for connecting to nearby devices (in the case of Bluetooth) and the internet (in the case of WiFi). The cellular service, originally called 3G and now called LTE; this option allows the iPone to connect to the internet anywhere cell phone works, to check a emails.	Apple's "Touch ID"; a fingerprint identity sensor that makes it easy to get into the iPad device. The biometric "Touch ID" is used with the iPhone 5s or later, iPad Pro, iPad Air 2, or iPad mini 3 or later. Figure 1 image from the 2008 Apple patent 20100082444 showing NFC Logo and fingerprint scanner (e.g., NFC + Fingerprint Scanner). The image displays the NFC Logo at the top and the Fingerprint Sensor at the bottom. The image is from published patent application 20100082444 filed on September 30, 2008 and is now patent [9,026,462] issued May 05, 2015. In this patent Apple speaks a great deal about biometrics and more directly fingerprint scanner built into the face of the illustrated Apple iPhone (#45)

wherein t	receiver of the	transceivers of	selected noun in Bluetooth W.	(RE) cellular 1	tar), condan,	29mm
Every iPhone and iPad ever made has both WiFi and Bluetooth, two wireless	technologies for connecting to nearby devices (in the case of Bluetooth) and the internet (in	the case of WiFi). The cellular service,	originally called 3G and now called LTE; this	option allows the iPone to connect to the	internet anywhere cell phone works, to check	emails.

frequency connection, a Cellular connection, a satellite connection, and a GPS connection. least one of a Bluetooth connection, a Wi-Fi 25. The communication device of [claim 11] wherein the communication device has at connection, a short and long range radio he group consisting of satellite, broadband, and long and short the products is a type or types on with the transmitter and the 7iFi, internet, radio frequency le communication device and the only type or types of ge radio frequency (RF).

1 Patent #: RE 43,990; Dependent Claims	22. The communication device [of claim 11] wherein equipped with applications for the locking, disabling a lock, enabling a lock, and unlocking the locks of, but not limited to, containers, vehicles, houses and businesses, using a smart phone, cell phone, PDA, laptop or desktop. 46. The lock disabler system [of claim 33] wherein applications for the locking, disabling a lock, enabling a lock, and unlocking the locks of, but not limited to, containers, vehicles, houses and businesses, using a smart phone, cell phone, PDA, laptop or desktop. 80. The built-in, embedded multi sensor detection system [of claim 74] wherein the product includes at least one of a built-in, embedded detector case, sensor array, central processing unit (CPU), power source of fuel, electric, solar or battery, remote internal or external lock disabler, biometric reader, camera, light, video, or interface.
Patent#: 9,096,189; Independent Claim 1	A communication device of at least one of a cell phone, a smart phone, a desktop, a handheld, a PDA, a laptop, or a computer terminal for monitoring products, interconnected to a product for communication therebetween, comprising:
Apple's iPhone / iPad (monitoring equipment); Apple Watch (detection device); interconnected to Ford's MyFord Mobile App (locking device)	Ford has updated the MyFord Mobile app (e.g. locking device) for its electric and hybrid cars with Apple Watch (e.g. detection device) compatibility. Apple Watch requires an iPhone and/or iPad (e.g. monitoring equipment). That means from your wrist, you can turn on the temperature controller, lock or unlock the doors, check your mileage, and view data from your last trip, such as miles per gallon and percentage of electric miles driven. It also means you can check your car's battery status, get directions back to your car, and more, all from your Apple Watch or Android Wear device. The MyFord Mobile app, which is available on Android and iOS, has been around since 2012. The update makes some of the app's most important features available on Apple Watch and Android Wear devices and has been specifically designed for each OS, such as round gauges for compatible round Android watch faces and support for Glances in watch faces and support for Glances in watchOS. There is a catch and that is the app will only play nicely with Ford's battery electric or plug-in hybrid models.

12. The communication device [of claim 11] wherein each communication device includes at least one of an internet connection, a GPS connection, a radio frequency (RF) connection, or a central processing unit (cpu).	28. The communication device [of claim 11] wherein the communication device can send and receive signals, send and receive warnings, send and receive commands, send and receive data, information and report the status of the sensors and operational equipment systems to and from a cell phone, smart phone, PDA or handheld device.	28. The communication device [of claim 11] wherein the communication device can send and receive signals, send and receive warnings, send and receive commands, send and receive data, information and report the status of the sensors and operational equipment systems to and from a cell phone, smart phone, PDA or handheld device.
for executing and carrying out the instructions of a computer program, a network processor which is specifically targeted at the networking application domain, or a front end processor for communication between a host computer and other devices;	a transmitter for transmitting signals and messages to at least one of plurality product groups based on the categories of a multisensor detection device, a maritime cargo container, a cell phone detection device, or a locking device	a receiver for receiving signals, data or messages from at least one of plurality product groups based on the categories of a multi-sensor detection device, a maritime cargo container, a cell phone detection device, or a locking device;
Apple chip A8X delivers better CPU and graphics performance than its predecessor. With its 64-bit desktop-class architecture, iPad Air 2 is as powerful as many personal computers. It's power efficient, too, with a 10-hour battery life. The iPhone 6's A8 processor has a dual-core model like the A7, but clocked at a higher frequency. The iPhone 6 has a 2GHz dual-core 20nm 64-bit A8	If your iPhone, iPad, or iPod touch is lost or stolen. Turn on Lost Mode. Using Lost Mode, a person can remotely lock the device with a four-digit passcode, and display a custom message with your phone number on your missing device's Lock screen	If your iPhone, iPad, or iPod touch is lost or stolen. Turn on Lost Mode. Using Lost Mode, a person can remotely lock the device with a four-digit passcode, and display a custom message with your phone number on your missing device's Lock screen

		the state of the s
Every iPhone and iPad ever made has both WiFi and Bluetooth, two wireless technologies for connecting to nearby devices (in the case of Bluetooth) and the internet (in the case of WiFi). The cellular service, originally called 3G and now called LTE; this option allows the iPone to connect to the internet anywhere cell phone works, to check emails.	at least one satellite connection, Bluetooth connection, WiFi connection, internet connection, radio frequency (RF) connection, cellular connection, broadband connection, long and short range radio frequency (RF) connection, or GPS connection;	25. The communication device [of claim 11] wherein the communication device has at least one of a Bluetooth connection, a Wi-Fi connection, a short and long range radio frequency connection, a Cellular connection, a satellite connection, and a GPS connection.
Every iPhone and iPad ever made has both WiFi and Bluetooth, two wireless technologies for connecting to nearby devices (in the case of Bluetooth) and the internet (in the case of WiFi).	the communication device is at least a fixed, portable or mobile communication device interconnected to a fixed, portable or mobile product, capable of wired or wireless communication therebetween;	20. The communication device [of claim 11] wherein the communication device can be interconnected through wire or wireless for communication, signals, commands and transmission of data.
If your iPhone, iPad, or iPod touch is lost or stolen. Turn on Lost Mode. Using Lost Mode, a person can remotely lock the device with a four-digit passcode, and display a custom message with your phone number on your missing device's Lock screen	whereupon the communication device, is interconnected to a product equipped to receive signals from or send signals to lock or unlock doors, activate or deactivate security systems, activate or deactivate multi-sensor detection systems, or to activate or deactivate cell phone detection systems;	28. The communication device [of claim 11] wherein the communication device can send and receive signals, send and receive warnings, send and receive commands, send and receive data, information and report the status of the sensors and operational equipment systems to and from a cell phone, smart phone, PDA or handheld device.

products to be monitored, the devices that are into anti-terrorist product groupings based on to identify a terrorist threat; grouping security detector cases, locks, mobile communication biometrics for identifying terrorist, scanning 32. The communication device [of claim 11] the categories of similarities of design of at wherein the communication device having communication equipment can be grouped devices, handheld communication devices, problems of at least one of; theft, detection detection for weapons of mass destruction, nuclear, explosive compounds and agents, least one of; sensors, software, interfaces, devices to form a network of ubiquitous implementation; similarities in material composition...; similarities in security vehicle slowing and stopping devices, for chemical, biological, radiological, monitoring, communication devices, specification, development and sensing and detecting. wherein the communication device receives a signal via any of one or more products listed in any of the plurality of product grouping categories; battery status, get directions back to your car, driven. It also means you can check your car's equipment). That means from your wrist, you can turn on the temperature controller, lock or hybrid cars with Apple Watch (e.g. detection watchOS. There is a catch and that is the app device) compatibility. Apple Watch requires app, which is available on Android and iOS, round gauges for compatible round Android Android Wear device. The MyFord Mobile view data from your last trip, such as miles per gallon and percentage of electric miles unlock the doors, check your mileage, and specifically designed for each OS, such as Ford has updated the MyFord Mobile app and more, all from your Apple Watch or has been around since 2012. The update makes some of the app's most important will only play nicely with Ford's battery an iPhone and/or iPad (e.g. monitoring (e.g. locking device) for its electric and features available on Apple Watch and watch faces and support for Glances in Android Wear devices and has been electric or plug-in hybrid models.

25. The communication device [of claim 11] wherein the communication device has at least one of a Bluetooth connection, a Wi-Fi connection, a short and long range radio frequency connection, a Cellular connection, a satellite connection, and a GPS connection.	30. The communication device [of claim 11] wherein the communication device is designed to be used with or without biometrics for authentication and identification, with at least one of a fingerprint recognition, voice recognition, face recognition, hand geometry, retina scan, iris scan, heart rate, pulse or signature, thereby allowing access to the product by authorized, trained, and equipped individuals and preventing access to the product by unauthorized, untrained, and unequipped individuals.
wherein at least one satellite connection, Bluetooth connection, WiFi connection, internet connection, radio frequency (RF) connection, cellular connection, broadband connection, long and short range radio frequency (RF) connection is capable of signal communication with the transmitter and the receiver of the communication device and transceivers of the products;	wherein the communication device is equipped with a biometric lock disabler that incorporates at least one of a fingerprint recognition, hand geometry, retina scan, iris scan and signature such that the communication device that is at least one of the cell phone, the smart phone, the desktop, the handheld, the PDA, the laptop or the computer terminal is locked by the biometric lock disabler to prevent unauthorized use;
Every iPhone and iPad ever made has both WiFi and Bluetooth, two wireless technologies for connecting to nearby devices (in the case of Bluetooth) and the internet (in the case of WiFi). The cellular service, originally called 3G and now called LTE; this option allows the iPone to connect to the internet anywhere cell phone works, to check emails.	Apple's "Touch ID"; a fingerprint identity sensor that makes it easy to get into the iPad device. The biometric "Touch ID" is used with the iPhone 5s or later, iPad Pro, iPad Air 2, or iPad mini 3 or later. Figure 1 image from the 2008 Apple patent 20100082444 showing NFC Logo and fingerprint scanner (e.g., NFC + Fingerprint Scanner). The image displays the NFC Logo at the top and the Fingerprint Sensor at the bottom. The image is from published patent application 20100082444 filed on September 30, 2008 and is now patent [9,026,462] issued May 05, 2015. In this patent Apple speaks a great deal about biometrics and more directly fingerprint scanner built into the face of the illustrated Apple iPhone (#45)

dent Claim 1 Patent #: RE 43,990; Dependent Claims	30. The communication device of [claim 11] wherein the communication device is designed to be used with or without biometrics for authentication and identification, with at least one of a fingerprint recognition, voice recognition, face recognition, hand geometry, retina scan, iris scan, heart rate, pulse or signature, thereby allowing access to the product by authorized, trained, and equipped individuals and preventing access to the product by unauthorized, untrained, and unequipped products, and preventing access to the product by unauthorized, untrained, and unequipped individuals. 118. The multi-sensor detection system of [claim 103] wherein the cell phone, the smart phone, and the cell phone detector case have a plurality of sensors for detecting at least one of a chemical, biological, radiological, nuclear, explosive and contraband agents and compounds which are capable of being disposed within the cell phone, the smart phone, or the cell phone detector case.
Patent #: 9,096,189; Independent Claim 1	A communication device of at least one of a cell phone, a smart phone, a desktop, a handheld, a PDA, a laptop, or a computer terminal for monitoring products, interconnected to a product for communication therebetween, comprising:
Samsung Galaxy s6 "Fingertip Heart Rate P	ralaxy S5 and S6 I device) its built- ng you keep up on onal accessories wing integrated its egy into the same nera's LED flash. Indles all health- ing its Heart Rate S Health app on In to a screen that your finger on the n be found on the n be found on the n be found on the itor that measures phone detection itor that measures ip using an optical y in sync with the d S6's accuracy Unlike the slow- r wrist, there is an your forefinger. It ulsations of your anslucency of the asy to read.

of a central processing unit (CPU) or executing and carrying out the instructions of a computer program, a network processor which is specifically targeted at the retworking application domain, or a front end processor for communication between a host computer and other devices;	28. The communication device [of claim 11] wherein the communication device can send and receive signals, send and receive warnings, send and receive commands, send and receive data, information and report the status of the sensors and operational equipment systems to and from a cell phone, smart phone, PDA or handheld device.
at least one of a central processing unit (CPU) for executing and carrying out the instructions of a computer program, a network processor which is specifically targeted at the networking application domain, or a front end processor for communication between a host computer and other devices;	a transmitter for transmitting signals and messages to at least one of plurality product groups based on the categories of a multisensor detection device, a maritime cargo container, a cell phone detection device, or a locking device
Samsung Galaxy s6 CPU (Central Processing Unit) - otherwise known as a processor - is an electronic circuit that can execute computer programs. The Samsung Galaxy S6 SM-G920i 32GB is a good Android phone with 2100 MHz processor 8-core that allows the user run heavy applications. The Samsung Galaxy S6 smartphones and tables don't just use "processors", they use what's called a System-on-a-chip (SoC). The SoC is the equivalent of a computer motherboard, including main processor, graphics processor and memory, on a single chip. The CPU is nonetheless a must-have component of the SoC. Modern SoCs have two, and soon four, processors cores ("multi-core")	The Samsung Galaxy S6 capable of automatically transmitting a signal to lock after several failed log-in attempts. The Samsung Galaxy S6 "Fingertip Heart Rate Monitor" detection device (e.g. cell phone detection device) is a built-in monitor that measures heart rate from a fingertip using a biosensor.

28. The communication device [of claim 11] wherein the communication device can send and receive signals, send and receive warnings, send and receive commands, send and receive data, information and report the status of the sensors and operational equipment systems to and from a cell phone, smart phone, PDA or handheld device.	25. The communication device [of claim 11] wherein the communication device has at least one of a Bluetooth connection, a Wi-Fi connection, a short and long range radio frequency connection, a Cellular connection, a satellite connection, and a GPS connection.	20. The communication device [of claim 11] wherein the communication device can be interconnected through wire or wireless for communication, signals, commands and transmission of data.
a receiver for receiving signals, data or messages from at least one of plurality product groups based on the categories of a multi-sensor detection device, a maritime cargo container, a cell phone detection device, or a locking device;	at least one satellite connection, Bluetooth connection, WiFi connection, internet connection, radio frequency (RF) connection, cellular connection, broadband connection, long and short range radio frequency (RF) connection, or GPS connection;	the communication device is at least a fixed, portable or mobile communication device interconnected to a fixed, portable or mobile product, capable of wired or wireless communication therebetween;
The Samsung Galaxy S6 capable of receiving a signal to reset (e.g. unlock; locking device) the phone. The Samsung Galaxy S6 "Fingertip Heart Rate Monitor" detection device (e.g. cell phone detection device) is a built-in monitor that measures heart rate from a fingertip using a biosensor.	Cellular data connection: The connection that the Galaxy s6 uses to exchange data over the air using your mobile operator's cellular network. Cellular network connection: The network that the Galaxy s6 uses for making voice and data connections. This network is managed by the mobile operator. WLAN: Wi-Fi 802.11 a/b/g/n/ac, dual-band, Wi-Fi Direct, hotspot. Bluetooth: v4.1, A2DP, LE, apt-X	Seven wireless interfaces now found in the Samsung Galaxy S6 high-end smartphone - Frequency Division Duplex Cellular, Time Division Duplex Cellular, Wi-Fi, Bluetooth, GNSS (Global Navigation Satellite System), Near-Field Communication, and Wireless

28. The communication device [of claim 11] wherein the communication device can send and receive signals, send and receive warnings, send and receive commands, send and receive data, information and report the status of the sensors and operational equipment systems to and from a cell phone, smart phone, PDA or handheld device.	32. The communication device [of claim 11] wherein the communication device having products to be monitored, the devices that are monitoring, communication devices, communication equipment can be grouped into anti-terrorist product groupings based on the categories of similarities of design of at least one of; sensors, software, interfaces, detector cases, locks, mobile communication devices, handheld communication devices, specification, development and implementation; similarities in material composition; similarities in security problems of at least one of; theft, detection for chemical, biological, radiological, nuclear, explosive compounds and agents, detection for weapons of mass destruction, biometrics for identifying terrorist, scanning to identify a terrorist threat; grouping security devices network of ubiquitous sensing and detecting.
whereupon the communication device, is interconnected to a product equipped to receive signals from or send signals to lock or unlock doors, activate or deactivate security systems, activate or deactivate multi-sensor detection systems, or to activate or deactivate cell phone detection systems;	wherein the communication device receives a signal via any of one or more products listed in any of the plurality of product grouping categories;
The Samsung Galaxy S6 capable of automatically transmitting a signal to lock after several failed log-in attempts. The Samsung Galaxy S6 capable of receiving a signal to reset (e.g. unlock; locking device). Thereby activating or deactivating a security system.	A 122 page report focuses on the evolution of the seven wireless interfaces now found in the high-end smartphone - Frequency Division Duplex Cellular, Wi-Fi, Bluetooth, GNSS (Global Navigation Satellite System), Near-Field Communication, and Wireless Charging. Smartphones today include receivers for GPS (US), GLONASS (Russia), and Beidou COMPASS (China). New regional satellite navigation systems from Japan (QZSS) and India (IRNSS) are being introduced over the coming several years. The Bluetooth Low Energy / Smart standard is migrating to the new v4.2 revision. This new personal area wireless networking standard revision enables some compelling use cases that leading smartphone OEMs are likely to rapidly adopt and deploy. Bluetooth Smart potentially has a role to play in wireless battery charging as a control and status side-channel mechanism, synergistically linking these two wireless

25. The communication device [of claim 11] wherein the communication device has at least one of a Bluetooth connection, a Wi-Fi connection, a short and long range radio frequency connection, a Cellular connection, a satellite connection, and a GPS connection.	30. The communication device [of claim 11] wherein the communication device is designed to be used with or without biometrics for authentication and identification, with at least one of a fingerprint recognition, voice recognition, face recognition, hand geometry, retina scan, iris scan, heart rate, pulse or signature, thereby allowing access to the product by authorized, trained, and equipped individuals and preventing access to the product by unauthorized, untrained, and unequipped individuals.
wherein at least one satellite connection, Bluetooth connection, WiFi connection, internet connection, radio frequency (RF) connection, cellular connection, broadband connection, long and short range radio frequency (RF) connection is capable of signal communication with the transmitter and the receiver of the communication device and transceivers of the products;	wherein the communication device is equipped with a biometric lock disabler that incorporates at least one of a fingerprint recognition, voice recognition, face recognition, hand geometry, retina scan, iris scan and signature such that the communication device that is at least one of the cell phone, the smart phone, the desktop, the handheld, the PDA, the laptop or the computer terminal is locked by the biometric lock disabler to prevent unauthorized use;
Cellular data connection: The connection that the Galaxy s6 uses to exchange data over the air using your mobile operator's cellular network. Cellular network connection: The network that the Galaxy s6 uses for making voice and data connections. This network is managed by the mobile operator. WLAN: Wi-Fi 802.11 a/b/g/n/ac, dual-band, Wi-Fi Direct, shotspot. Bluetooth: v4.1, A2DP, LE, apt-X	After several unsuccessful log-in attempts, a Samsung device automatically locks itself up as a security feature. A user is given chances to correctly enter their credentials but they are not that many. If the user is unable to log in to the phone after doing all the available security layers, there's no other option left for the user to do but factory reset. Samsung only allows you to register 4 fingerprints to set-up the fingerprint scanner; a security feature for easy log-in and lock-out. One major feature that Samsung added to its Galaxy line of smartphones was the heart rate monitor. The health-focused technology heart rate sensor is cleverly positioned on the back of the phone and embedded into the same opening as the LED flash.

managed by the mobile operator.WLAN: Wi-Fi 802.11 a/b/g/n/ac, dual-band, Wi-Fi Direct, Cellular data connection: The connection that the Galaxy s6 uses to exchange data over the voice and data connections. This network is network that the Galaxy s6 uses for making network. Cellular network connection: The hotspot. Bluetooth: v4.1, A2DP, LE, apt-X air using your mobile operator's cellular

frequency connection, a Cellular connection, a satellite connection, and a GPS connection. least one of a Bluetooth connection, a Wi-Fi 25. The communication device of [claim 11] wherein the communication device has at (RF), cellular, broadband, and long and short transceivers of the products is a type or types selected from the group consisting of satellite, communication with the transmitter and the receiver of the communication device and Bluetooth, WiFi, internet, radio frequency wherein the only type or types of range radio frequency (RF).

connection, a short and long range radio

12. The communication device [of claim 11] wherein each communication device includes at least one of an internet connection, a GPS connection, a radio frequency (RF) connection, or a central processing unit (cpu).	28. The communication device [of claim 11] wherein the communication device can send and receive signals, send and receive warnings, send and receive commands, send and receive data, information and report the status of the sensors and operational equipment systems to and from a cell phone, smart phone, PDA or handheld device.
at least one of a central processing unit (CPU) for executing and carrying out the instructions of a computer program, a network processor wherein each communication device includes which is specifically targeted at the networking application domain, or a front end processor for communication between a host computer and other devices;	a transmitter for transmitting signals and messages to at least one of plurality product groups based on the categories of a multisensor detection device, a maritime cargo container, a cell phone detection device, or a locking device
Samsung Galaxy s6 CPU (Central Processing Unit) - otherwise known as a processor - is an electronic circuit that can execute computer programs. The Samsung Galaxy S6 SM-G920i 32GB is a good Android phone with 2100 MHz processor 8-core that allows the user run heavy applications. The Samsung Galaxy S6 smartphones and tables don't just use "processors", they use what's called a System-on-a-chip (SoC). The SoC is the equivalent of a computer motherboard, including main processor, graphics processor and memory, on a single chip. The CPU is nonetheless a must-have component of the SoC. Modern SoCs have two, and soon four, processors cores ("multi-core")	The Samsung Galaxy S6 capable of automatically transmitting a signal to lock after several failed log-in attempts. The Samsung Galaxy S6 "Fingertip Heart Rate Monitor" detection device (e.g. cell phone detection device) is a built-in monitor that measures heart rate from a fingertip using a biosensor.

28. The communication device [of claim 11] wherein the communication device can send and receive signals, send and receive warnings, send and receive commands, send and receive data, information and report the status of the sensors and operational equipment systems to and from a cell phone, smart phone, PDA or handheld device.	25. The communication device [of claim 11] wherein the communication device has at least one of a Bluetooth connection, a Wi-Fi connection, a short and long range radio frequency connection, a Cellular connection, a satellite connection, and a GPS connection.	20. The communication device [of claim 11] wherein the communication device can be interconnected through wire or wireless for communication, signals, commands and transmission of data.
a receiver for receiving signals, data or messages from at least one of plurality product groups based on the categories of a multi-sensor detection device, a maritime cargo container, a cell phone detection device, or a locking device;	at least one satellite connection, Bluetooth connection, WiFi connection, internet connection, radio frequency (RF) connection, cellular connection, broadband connection, long and short range radio frequency (RF) connection, or GPS connection;	the communication device is at least a fixed, portable or mobile communication device interconnected to a fixed, portable or mobile product, capable of wired or wireless communication therebetween;
The Samsung Galaxy S6 capable of receiving a signal to reset (e.g. unlock; locking device) the phone. The Samsung Galaxy S6 "Fingertip Heart Rate Monitor" detection device (e.g. cell phone detection device) is a built-in monitor that measures heart rate from a fingertip using a biosensor.	Cellular data connection: The connection that the Galaxy s6 uses to exchange data over the air using your mobile operator's cellular network. Cellular network connection: The network that the Galaxy s6 uses for making voice and data connections. This network is managed by the mobile operator. WLAN: Wi-Fi 802.11 a/b/g/n/ac, dual-band, Wi-Fi Direct, hotspot. Bluetooth: v4.1, A2DP, LE, apt-X	Seven wireless interfaces now found in the Samsung Galaxy S6 high-end smartphone - Frequency Division Duplex Cellular, Time Division Duplex Cellular, Wi-Fi, Bluetooth, GNSS (Global Navigation Satellite System), Near-Field Communication, and Wireless Charging

28. The communication device [of claim 11] wherein the communication device can send and receive signals, send and receive warnings, send and receive commands, send and receive data, information and report the status of the sensors and operational equipment systems to and from a cell phone, smart phone, PDA or handheld device.	32. The communication device [of claim 11] wherein the communication device having products to be monitored, the devices that are monitoring, communication devices, communication equipment can be grouped into anti-terrorist product groupings based on the categories of similarities of design of at least one of; sensors, software, interfaces, detector cases, locks, mobile communication devices, handheld communication devices, specification, development and implementation; similarities in material composition; similarities in security problems of at least one of; theft, detection for chemical, biological, radiological, nuclear, explosive compounds and agents, detection for weapons of mass destruction, biometrics for identifying terrorist, scanning to identify a terrorist threat; grouping security devices network of ubiquitous sensing and detecting.
whereupon the communication device, is interconnected to a product equipped to receive signals from or send signals to lock or unlock doors, activate or deactivate security systems, activate or deactivate multi-sensor detection systems, or to activate or deactivate cell phone detection systems;	wherein the communication device receives a signal via any of one or more products listed in any of the plurality of product grouping categories;
The Samsung Galaxy S6 capable of automatically transmitting a signal to lock after several failed log-in attempts. The Samsung Galaxy S6 capable of receiving a signal to reset (e.g. unlock; locking device). Thereby activating or deactivating a security system.	A 122 page report focuses on the evolution of the seven wireless interfaces now found in the high-end smartphone - Frequency Division Duplex Cellular, Time Division Duplex Cellular, Wi-Fi, Bluetooth, GNSS (Global Navigation Satellite System), Near-Field Communication, and Wireless Charging. Smartphones today include receivers for GPS (US), GLONASS (Russia), and Beidou COMPASS (China). New regional satellite navigation systems from Japan (QZSS) and India (IRNSS) are being introduced over the coming several years. The Bluetooth Low Energy / Smart standard is migrating to the new v4.2 revision. This new personal area wireless networking standard revision enables some compelling use cases that leading smartphone OEMs are likely to rapidly adopt and deploy. Bluetooth Smart potentially has a role to play in wireless battery charging as a control and status side-channel mechanism, synergistically linking these two wireless subsystems.

25. The communication device [of claim 11] wherein the communication device has at least one of a Bluetooth connection, a Wi-Fi connection, a short and long range radio frequency connection, a Cellular connection, a satellite connection, and a GPS connection.	30. The communication device [of claim 11] wherein the communication device is designed to be used with or without biometrics for authentication and identification, with at least one of a fingerprint recognition, voice recognition, face recognition, hand geometry, retina scan, iris scan, heart rate, pulse or signature, thereby allowing access to the product by authorized, trained, and equipped individuals and preventing access to the product by unauthorized, untrained, and unequipped individuals.
wherein at least one satellite connection, Bluetooth connection, WiFi connection, internet connection, radio frequency (RF) connection, cellular connection, broadband connection, long and short range radio frequency (RF) connection is capable of signal communication with the transmitter and the receiver of the communication device and transceivers of the products;	wherein the communication device is equipped with a biometric lock disabler that incorporates at least one of a fingerprint recognition, hand geometry, retina scan, iris scan and signature such that the communication device that is at least one of the cell phone, the smart phone, the desktop, the handheld, the PDA, the laptop or the computer terminal is locked by the biometric lock disabler to prevent unauthorized use;
Cellular data connection: The connection that the Galaxy s6 uses to exchange data over the air using your mobile operator's cellular network. Cellular network connection: The network that the Galaxy s6 uses for making voice and data connections. This network is managed by the mobile operator. WLAN: Wi-Fi 802.11 a/b/g/n/ac, dual-band, Wi-Fi Direct, hotspot. Bluetooth: v4.1, A2DP, LE, apt-X	After several unsuccessful log-in attempts, a Samsung device automatically locks itself up as a security feature. A user is given chances to correctly enter their credentials but they are not that many. If the user is unable to log in to the phone after doing all the available security layers, there's no other option left for the user to do but factory reset. Samsung only allows you to register 4 fingerprints to set-up the fingerprint scanner; a security feature for easy log-in and lock-out. One major feature that Samsung added to its Galaxy line of smartphones was the heart rate monitor. The health-focused technology heart rate sensor is cleverly positioned on the back of the phone and embedded into the same opening as the LED flash.

Cellular data connection: The connection that the Galaxy s6 uses to exchange data over the air using your mobile operator's cellular network. Cellular network connection: The network that the Galaxy s6 uses for making voice and data connections. This network is managed by the mobile operator. WLAN: Wi-Fi 802.11 a/b/g/n/ac, dual-band, Wi-Fi Direct, hotspot. Bluetooth: v4.1, A2DP, LE, apt-X

wherein the only type or types of communication with the transmitter and the receiver of the communication device and transceivers of the products is a type or types selected from the group consisting of satellite, Bluetooth, WiFi, internet, radio frequency (RF), cellular, broadband, and long and short range radio frequency (RF).

25. The communication device of [claim 11] wherein the communication device has at least one of a Bluetooth connection, a Wi-Fi connection, a short and long range radio frequency connection, a Cellular connection, a satellite connection, and a GPS connection.

Patent #: RE 43,990; Dependent Claims.	 22. The communication device [of claim 11] wherein equipped with applications for the locking, disabling a lock, enabling a lock, and unlocking the locks of, but not limited to, containers, vehicles, houses and businesses, using a smart phone, cell phone, PDA, laptop or desktop. 46. The lock disabler system [of claim 33] wherein applications for the locking, disabling a lock, enabling a lock, and unlocking the locks of, but not limited to, containers, vehicles, houses and businesses, using a smart phone, cell phone, PDA, laptop or desktop. 80. The built-in, embedded multi sensor detection system [of claim 74] wherein the product includes at least one of a built-in, embedded detector case, sensor array, central processing unit (CPU), power source of fuel, electric, solar or battery remote internal or external lock disabler, biometric reader, camera, light, video, or interface.
Patent #: 9,096,189; Independent Claim 1	A communication device of at least one of a cell phone, a smart phone, a desktop, a handheld, a PDA, a laptop, or a computer terminal for monitoring products, interconnected to a product for communication therebetween, comprising:
Samsung Galaxy s6 (smartphone) and Samsung Gear S2 (smartwatch) interconnected to the "Yale Assure Lock" (locking device)	The Assure Lock with Bluetooth has five digital keys sent to the Digital Keys app by a Yale central server computer. The Assure companion app is available for iOS and Android devices and the Samsung Galaxy Gear S2 smartwatch. The Gear S2, will need to be connected to a mobile device (e.g. Galaxy S6). The lock communicates with the app only via Bluetooth, the phone must be within 30 feet to work with it. Unlocking the Assure Lock with a Gear S2, users touch the screen to activate the digital key. Then, touch the lock screen to unlock the deadbolt. It isn't only for Samsung's smartwatch, it works with iOS and Android phones via the compatible app; gesture controls on smartphones. Only Samsung Gear S2; company will update its Android and iOS app for compatibility with related smartwatches. Yale's Look Door Viewer; a video doorbell that detects when people approach your door, allows you to see them from the Viewer smartphone app. When you approach the door, it automatically connects to the Yale app on the phone and lets you unlock your door with your

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28. The communication device [of claim 11] wherein the communication device can send and receive signals, send and receive warnings, send and receive commands, send and receive data, information and report the status of the sensors and operational equipment systems to and from a cell phone, smart phone, PDA or handheld device.	25. The communication device [of claim 11] wherein the communication device has at least one of a Bluetooth connection, a Wi-Fi connection, a short and long range radio frequency connection, a Cellular connection, a satellite connection, and a GPS connection.	20. The communication device [of claim 11] wherein the communication device can be interconnected through wire or wireless for communication, signals, commands and
a receiver for receiving signals, data or messages from at least one of plurality product groups based on the categories of a multi-sensor detection device, a maritime cargo container, a cell phone detection device, or a locking device;	at least one satellite connection, Bluetooth connection, WiFi connection, internet connection, radio frequency (RF) connection, cellular connection, broadband connection, long and short range radio frequency (RF) connection, or GPS connection;	the communication device is at least a fixed, portable or mobile communication device interconnected to a fixed, portable or mobile product, capable of wired or wireless
The Samsung Galaxy S6 capable of receiving a signal to reset (e.g. unlock; locking device) the phone. The Samsung Galaxy S6 "Fingertip Heart Rate Monitor" detection device (e.g. cell phone detection device) is a built-in monitor that measures heart rate from a fingertip using a biosensor.	Cellular data connection: The connection that the Galaxy s6 uses to exchange data over the air using your mobile operator's cellular network. Cellular network connection: The network that the Galaxy s6 uses for making voice and data connections. This network is managed by the mobile operator. WLAN: Wi-Fi 802.11 a/b/g/n/ac, dual-band, Wi-Fi Direct, hotspot. Bluetooth: v4.1, A2DP, LE, apt-X	Seven wireless interfaces now found in the Samsung Galaxy S6 high-end smartphone - Frequency Division Duplex Cellular, Time Division Duplex Cellular, Wi-Fi, Bluetooth, GNSS (Global Navigation Satellite System),

28. The communication device [of claim 11] wherein the communication device can send and receive signals, send and receive warnings, send and receive commands, send and receive data, information and report the status of the sensors and operational equipment systems to and from a cell phone, smart phone, PDA or handheld device.	32. The communication device [of claim 11] wherein the communication device having products to be monitored, the devices that are monitoring, communication devices, communication equipment can be grouped into anti-terrorist product groupings based on the categories of similarities of design of at least one of; sensors, software, interfaces, detector cases, locks, mobile communication devices, handheld communication devices, vehicle slowing and stopping devices, specification, development and implementation; similarities in material composition; similarities in security problems of at least one of; theft, detection for chemical, biological, radiological, nuclear, explosive compounds and agents, detection for weapons of mass destruction, biometrics for identifying terrorist, scanning to identify a terrorist threat; grouping security devices network of ubiquitous sensing and detecting.
whereupon the communication device, is interconnected to a product equipped to receive signals from or send signals to lock or unlock doors, activate or deactivate security systems, activate or deactivate multi-sensor detection systems, or to activate or deactivate cell phone detection systems;	wherein the communication device receives a signal via any of one or more products listed in any of the plurality of product grouping categories;
The Samsung Galaxy S6 capable of automatically transmitting a signal to lock after several failed log-in attempts. The Samsung Galaxy S6 capable of receiving a signal to reset (e.g. unlock; locking device). Thereby activating or deactivating a security system.	A 122 page report focuses on the evolution of the seven wireless interfaces now found in the high-end smartphone - Frequency Division Duplex Cellular, Time Division Duplex Cellular, Wi-Fi, Bluetooth, GNSS (Global Navigation Satellite System), Near-Field Communication, and Wireless Charging. Smartphones today include receivers for GPS (US), GLONASS (Russia), and Beidou COMPASS (China). New regional satellite navigation systems from Japan (QZSS) and India (IRNSS) are being introduced over the coming several years. The Bluetooth Low Energy / Smart standard is migrating to the new v4.2 revision. This new personal area wireless networking standard revision enables some compelling use cases that leading smartphone OEMs are likely to rapidly adopt and deploy. Bluetooth Smart potentially has a role to play in wireless battery charging as a control and status side-channel mechanism, synergistically linking these two wireless subsystems.

25. The communication device [of claim 11] wherein the communication device has at least one of a Bluetooth connection, a Wi-Fi connection, a short and long range radio frequency connection, a Cellular connection, a satellite connection, and a GPS connection.	30. The communication device [of claim 11] wherein the communication device is designed to be used with or without biometrics for authentication and identification, with at least one of a fingerprint recognition, voice recognition, face recognition, hand geometry, retina scan, iris scan, heart rate, pulse or signature, thereby allowing access to the product by authorized, trained, and equipped individuals and preventing access to the product by unauthorized, untrained, and unequipped individuals.
wherein at least one satellite connection, Bluetooth connection, WiFi connection, internet connection, radio frequency (RF) connection, cellular connection, broadband connection, long and short range radio frequency (RF) connection is capable of signal communication with the transmitter and the receiver of the communication device and transceivers of the products;	wherein the communication device is equipped with a biometric lock disabler that incorporates at least one of a fingerprint recognition, voice recognition, face recognition, hand geometry, retina scan, iris scan and signature such that the communication device that is at least one of the cell phone, the smart phone, the desktop, the handheld, the PDA, the laptop or the computer terminal is locked by the biometric lock disabler to prevent unauthorized use;
Cellular data connection: The connection that the Galaxy s6 uses to exchange data over the air using your mobile operator's cellular network. Cellular network connection: The network that the Galaxy s6 uses for making voice and data connections. This network is managed by the mobile operator. WLAN: Wi-Fi 802.11 a/b/g/n/ac, dual-band, Wi-Fi Direct, hotspot. Bluetooth: v4.1, A2DP, LE, apt-X	After several unsuccessful log-in attempts, a Samsung device automatically locks itself up as a security feature. A user is given chances to correctly enter their credentials but they are not that many. If the user is unable to log in to the phone after doing all the available security layers, there's no other option left for the user to do but factory reset. Samsung only allows you to register 4 fingerprints to set-up the fingerprint scanner; a security feature for easy log-in and lock-out. One major feature that Samsung added to its Galaxy line of smartphones was the heart rate monitor. The health-focused technology heart rate sensor is cleverly positioned on the back of the phone and embedded into the same opening as the LED flash.

Cellular data connection: The connection that the Galaxy s6 uses to exchange data over the air using your mobile operator's cellular network. Cellular network connection: The network that the Galaxy s6 uses for making voice and data connections. This network is managed by the mobile operator. WLAN: Wi-Fi 802.11 a/b/g/n/ac, dual-band, Wi-Fi Direct, hotspot. Bluetooth: v4.1, A2DP, LE, apt-X

wherein the only type or types of communication with the transmitter and the receiver of the communication device and transceivers of the products is a type or types selected from the group consisting of satellite, Bluetooth, WiFi, internet, radio frequency (RF), cellular, broadband, and long and short range radio frequency (RF).

25. The communication device of [claim 11] wherein the communication device has at least one of a Bluetooth connection, a Wi-Fi connection, a short and long range radio frequency connection, a Cellular connection, a satellite connection, and a GPS connection.

Patent#: RE, 43,990; Dependent Claims	 22. The communication device [of claim 11] wherein equipped with applications for the locking, disabling a lock, enabling a lock, and unlocking the locks of, but not limited to, containers, vehicles, houses and businesses, using a smart phone, cell phone, PDA, laptop or desktop. 46. The lock disabler system [of claim 33] wherein applications for the locking, disabling a lock, enabling a lock, and unlocking the locks of, but not limited to, containers, vehicles, houses and businesses, using a smart phone, cell phone, PDA, laptop or desktop. 80. The built-in, embedded multi sensor detection system [of claim 74] wherein the product includes at least one of a built-in, embedded detector case, sensor array, central processing unit (CPU), power source of fuel, electric, solar or battery remote internal or external lock disabler, biometric reader, camera, light, video, or interface.
Patent #: 9,096,189; Independent Claim 1	A communication device of at least one of a cell phone, a smart phone, a desktop, a handheld, a PDA, a laptop, or a computer terminal for monitoring products, interconnected to a product for communication therebetween, comprising:
Samsung Galaxy s6 (smartphone) and "Samsung SmartThings Hub" (interfacegateway) interconnected to the Yale Assure Lock (locking device)	The SmartThings app turns the Samsung Galaxy S6 smartphone into a remote to control all of the smart devices in your home. Available for download for Android, iOS and Windows. The Samsung SmartThings Hub communicates information from your smartphone to all of your different connected products—regardless of their wireless protocol—so that you can easily monitor and control them from the free SmartThings app. Anyone with broadband Internet connection can easily set up their Hub. By adding a compatible camera, customers can also get accompanying video clips. Allows you to connect all of your different smart locks (e.g. Yale Assure Lock), lights, outlets, and thermostats. Once the Samsung SmartThings Hub and SmartThings app is set-up; can add as many devices as wanted to customize the home. Works with the following brands: Samsung, Honeywell, Schlagle, and Yale, First alert, D-Link, Leviton, Bose, Cree, and others.

at least one of a central processing unit (CPU) for executing and carrying out the instructions of a computer program, a network processor which is specifically targeted at the processor for communication domain, or a front end processor for communication between a host computer and other devices; at least one of a central processing unit (CPU) 12. The communication device [of claim 11] at least one of a internet connection, a GPS connection, or a central processing unit (cpu).	28. The communication device [of claim 11] wherein the communication device can send and receive signals, send and receive warnings, send and receive commands, send and receive data, information and report the status of the sensors and operational equipment systems to and from a cell phone, smart phone, PDA or handheld device.
at least one of a central processing unit (CPU) for executing and carrying out the instructions of a computer program, a network processor which is specifically targeted at the networking application domain, or a front end processor for communication between a host computer and other devices;	a transmitter for transmitting signals and messages to at least one of plurality product groups based on the categories of a multisensor detection device, a maritime cargo container, a cell phone detection device, or a locking device
Samsung Galaxy s6 CPU (Central Processing Unit) - otherwise known as a processor - is an electronic circuit that can execute computer programs. The Samsung Galaxy S6 SM-G920i 32GB is a good Android phone with 2100 MHz processor 8-core that allows the user run heavy applications. The Samsung Galaxy S6 smartphones and tables don't just use "processors", they use what's called a System-on-a-chip (SoC). The SoC is the equivalent of a computer motherboard, including main processor, graphics processor and memory, on a single chip. The CPU is nonetheless a must-have component of the SoC. Modern SoCs have two, and soon four, processors cores ("multi-core")	The Samsung Galaxy S6 capable of automatically transmitting a signal to lock after several failed log-in attempts. The Samsung Galaxy S6 "Fingertip Heart Rate Monitor" detection device (e.g. cell phone detection device) is a built-in monitor that measures heart rate from a fingertip using a biosensor.

28. The communication device [of claim 11] wherein the communication device can send and receive signals, send and receive warnings, send and receive commands, send and receive data, information and report the status of the sensors and operational equipment systems to and from a cell phone, smart phone, PDA or handheld device.	25. The communication device [of claim 11] wherein the communication device has at least one of a Bluetooth connection, a Wi-Fi connection, a short and long range radio frequency connection, a Cellular connection, a satellite connection, and a GPS connection.	20. The communication device [of claim 11] wherein the communication device can be interconnected through wire or wireless for communication, signals, commands and transmission of data.
a receiver for receiving signals, data or messages from at least one of plurality product groups based on the categories of a multi-sensor detection device, a maritime cargo container, a cell phone detection device, or a locking device;	at least one satellite connection, Bluetooth connection, WiFi connection, internet connection, radio frequency (RF) connection, cellular connection, broadband connection, long and short range radio frequency (RF) connection, or GPS connection;	the communication device is at least a fixed, portable or mobile communication device interconnected to a fixed, portable or mobile product, capable of wired or wireless communication therebetween;
The Samsung Galaxy S6 capable of receiving a signal to reset (e.g. unlock; locking device) the phone. The Samsung Galaxy S6 "Fingertip Heart Rate Monitor" detection device (e.g. cell phone detection device) is a built-in monitor that measures heart rate from a fingertip using a biosensor.	Cellular data connection: The connection that the Galaxy s6 uses to exchange data over the air using your mobile operator's cellular network. Cellular network connection: The network that the Galaxy s6 uses for making voice and data connections. This network is managed by the mobile operator.WLAN: Wi-Fi 802.11 a/b/g/n/ac, dual-band, Wi-Fi Direct, hotspot. Bluetooth: v4.1, A2DP, LE, apt-X	Seven wireless interfaces now found in the Samsung Galaxy S6 high-end smartphone - Frequency Division Duplex Cellular, Time Division Duplex Cellular, Wi-Fi, Bluetooth, GNSS (Global Navigation Satellite System), Near-Field Communication, and Wireless Charging

28. The communication device [of claim 11] wherein the communication device can send and receive signals, send and receive and receive data, information and report the status of the sensors and operational equipment systems to and from a cell phone, smart phone, PDA or handheld device.	32. The communication device [of claim 11] wherein the communication device having products to be monitored, the devices that are monitoring, communication devices, communication equipment can be grouped into anti-terrorist product groupings based on the categories of similarities of design of at least one of; sensors, software, interfaces, detector cases, locks, mobile communication devices, handheld communication devices, specification, development and implementation; similarities in material composition; similarities in security problems of at least one of; theft, detection for weapons of mass destruction, biometrics for identifying terrorist, scanning to identify a terrorist threat; grouping security devices network of ubiquitous sensing and detecting.
whereupon the communication device, is interconnected to a product equipped to receive signals from or send signals to lock or unlock doors, activate or deactivate security systems, activate or deactivate multi-sensor detection systems, or to activate or deactivate cell phone detection systems;	wherein the communication device receives a signal via any of one or more products listed in any of the plurality of product grouping categories;
The Samsung Galaxy S6 capable of automatically transmitting a signal to lock after several failed log-in attempts. The Samsung Galaxy S6 capable of receiving a signal to reset (e.g. unlock; locking device). Thereby activating or deactivating a security system.	A 122 page report focuses on the evolution of the seven wireless interfaces now found in the high-end smartphone - Frequency Division Duplex Cellular, Time Division Duplex Cellular, Wi-Fi, Bluetooth, GNSS (Global Navigation Satellite System), Near-Field Communication, and Wireless Charging. Smartphones today include receivers for GPS (US), GLONASS (Russia), and Beidou COMPASS (China). New regional satellite navigation systems from Japan (QZSS) and India (RNSS) are being introduced over the coming several years. The Bluetooth Low Energy / Smart standard is migrating to the new v4.2 revision. This new personal area wireless networking standard revision enables some compelling use cases that leading smartphone OEMs are likely to rapidly adopt and deploy. Bluetooth Smart potentially has a role to play in wireless battery charging as a control and status side-channel mechanism, synergistically linking these two wireless subsystems.

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wherein at least one satellite connection, Bluetooth connection, WiFi connection, internet connection, radio frequency (RF) connection, cellular connection, broadband connection, long and short range radio frequency (RF) connection is capable of signal communication with the transmitter and the receiver of the communication device and transceivers of the products;	wherein the communication device is equipped with a biometric lock disabler that incorporates at least one of a fingerprint recognition, hand geometry, retina scan, iris scan and signature such that the communication device that is at least one of the cell phone, the smart phone, the desktop, the handheld, the PDA, the laptop or the computer terminal is locked by the biometric lock disabler to prevent unauthorized use;
Cellular data connection: The connection that the Galaxy s6 uses to exchange data over the air using your mobile operator's cellular network connection: The network that the Galaxy s6 uses for making voice and data connections. This network is managed by the mobile operator. WLAN: Wirk 1802.11 a/b/g/n/ac, dual-band, Wi-Fi Direct, hotspot. Bluetooth: v4.1, A2DP, LE, apt-X and transceivers of the products;	After several unsuccessful log-in attempts, a Samsung device automatically locks itself up as a security feature. A user is given chances to correctly enter their credentials but they are not that many. If the user is unable to log in to the phone after doing all the available security layers, there's no other option left for the user to do but factory reset. Samsung only allows you to register 4 fingerprints to set-up the fingerprint scanner; a security feature for easy log-in and lock-out. One major feature that Samsung added to its Galaxy line of smartphones was the heart rate monitor. The health-focused technology heart rate sensor is cleverly positioned on the back of the phone and embedded into the same opening as the LED flash.

managed by the mobile operator. WLAN: Wi-Fi 802.11 a/b/g/n/ac, dual-band, Wi-Fi Direct, Cellular data connection: The connection that the Galaxy s6 uses to exchange data over the voice and data connections. This network is network that the Galaxy s6 uses for making network, Cellular network connection: The hotspot. Bluetooth: v4.1, A2DP, LE, apt-X air using your mobile operator's cellular

frequency connection, a Cellular connection, a satellite connection, and a GPS connection. least one of a Bluetooth connection, a Wi-Fi 25. The communication device of [claim 11] wherein the communication device has at (RF), cellular, broadband, and long and short selected from the group consisting of satellite, transceivers of the products is a type or types communication with the transmitter and the Bluetooth, WiFi, internet, radio frequency receiver of the communication device and wherein the only type or types of range radio frequency (RF)

connection, a short and long range radio

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Patent #: RE 43,990; Dependent Claims	 22. The communication device [of claim 11] wherein equipped with applications for the locking, disabling a lock, enabling a lock, and unlocking the locks of, but not limited to, containers, vehicles, houses and businesses, using a smart phone, cell phone, PDA, laptop or desktop. 46. The lock disabler system [of claim 33] wherein applications for the locking, disabling a lock, enabling a lock, and unlocking the locks of, but not limited to, containers, vehicles, houses and businesses, using a smart phone, cell phone, PDA, laptop or desktop. 80. The built-in, embedded multi sensor detection system [of claim 74] wherein the product includes at least one of a built-in, embedded detector case, sensor array, central processing unit (CPU), power source of fuel, electric, solar or battery remote internal or external lock disabler, biometric reader, camera, light, video, or interface.
Patent #: 9,096,189; Independent Claim 1	A communication device of at least one of a cell phone, a smart phone, a desktop, a handheld, a PDA, a laptop, or a computer terminal for monitoring products, interconnected to a product for communication therebetween, comprising:
Samsung Galaxy s6 (smartphone) and Samsung Gear S2 (smartwatch) interconnected to the "Volkswagen Car- Net e-Remote" (locking device)	Samsung have created a new version of the Volkswagen app which gives you control over key features of your car directly from your smartwatch – in this instance, the Samsung Gear S2. The Gear S2, will need to be connected to a mobile device (e.g. Galaxy S6). The new app, Volkswagen Car-Net e-Remote, if you own a VW and a Gear S2, enables you to check that your car is locked with a little tinker of your smartwatch. Users will be able to lock/unlock car doors, open/close windows, control climate settings, and even find out where their car is parked from the Gear S2 smartwatch. Volkswagen makes two applications, Car-Net for the United States and e-Remote for Europe. Both offer the ability to check if the car doors locked, turning on the AC on car and stop charging for electric vehicles. Samsung's partnership with Volkswagen, for smartphone connections via Car Mode for Galaxy, an app powered by MirrorLink. Car Mode for Galaxy, is controlled by both touch and voice powered by S-Voice, enables phone calls.

Samenna Galayy & OPII (Central Processing		
<u> </u>	at least one of a central processing unit (CPU) for executing and carrying out the instructions of a computer program, a networking application domain, or a front end processor for communication between a host computer and other devices; at least one of a central processing unit (CPU) wherein each communication device [of claim 11] wherein each communication device includes at least one of an internet connection, a GPS connection, or a central processing unit (cpu).	12. The communication device [of claim 11] wherein each communication device includes at least one of an internet connection, a GPS connection, a radio frequency (RF) connection, or a central processing unit (cpu).
The Samsung Galaxy S6 capable of automatically transmitting a signal to lock after several failed log-in attempts. The Samsung Galaxy S6 "Fingertip Heart Rate Monitor" detection device (e.g. cell phone detection device) is a built-in monitor that measures heart rate from a fingertip using a biosensor.	a transmitter for transmitting signals and messages to at least one of plurality product groups based on the categories of a multisensor detection device, a maritime cargo container, a cell phone detection device, or a locking device	28. The communication device [of claim 11] wherein the communication device can send and receive signals, send and receive warnings, send and receive commands, send and receive data, information and report the status of the sensors and operational equipment systems to and from a cell phone, smart phone, PDA or handheld device.

28. The communication device [of claim 11] wherein the communication device can send and receive signals, send and receive warnings, send and receive commands, send and receive data, information and report the status of the sensors and operational equipment systems to and from a cell phone, smart phone, PDA or handheld device.	32. The communication device [of claim 11] wherein the communication device having products to be monitored, the devices that are monitoring, communication devices, communication equipment can be grouped into anti-terrorist product groupings based on the categories of similarities of design of at least one of; sensors, software, interfaces, detector cases, locks, mobile communication devices, vehicle slowing and stopping devices, specification, development and implementation; similarities in material composition; similarities in security problems of at least one of; theft, detection for chemical, biological, radiological, nuclear, explosive compounds and agents, detection for weapons of mass destruction, biometrics for identifying terrorist, scanning to identify a terrorist threat; grouping security devices network of ubiquitous sensing and detecting.
whereupon the communication device, is interconnected to a product equipped to receive signals from or send signals to lock or unlock doors, activate or deactivate security systems, activate or deactivate multi-sensor detection systems, or to activate or deactivate cell phone detection systems;	wherein the communication device receives a signal via any of one or more products listed in any of the plurality of product grouping categories;
The Samsung Galaxy S6 capable of automatically transmitting a signal to lock after several failed log-in attempts. The Samsung Galaxy S6 capable of receiving a signal to reset (e.g. unlock; locking device). Thereby activating or deactivating a security system.	A 122 page report focuses on the evolution of the seven wireless interfaces now found in the high-end smartphone - Frequency Division Duplex Cellular, Time Division Duplex Cellular, Wi-Fi, Bluetooth, GNSS (Global Navigation Satellite System), Near-Field Communication, and Wireless Charging. Smartphones today include receivers for GPS (US), GLONASS (Russia), and Beidou COMPASS (China). New regional satellite navigation systems from Japan (QZSS) and India (RNSS) are being introduced over the coming several years. The Bluetooth Low Energy / Smart standard is migrating to the new v4.2 revision. This new personal area wireless networking standard revision enables some compelling use cases that leading smartphone OEMs are likely to rapidly adopt and deploy. Bluetooth Smart potentially has a role to play in wireless battery charging as a control and status side-channel mechanism, synergistically linking these two wireless subsystems.

25. The communication device [of claim 11] wherein the communication device has at least one of a Bluetooth connection, a Wi-Fi connection, a short and long range radio frequency connection, a Cellular connection, a satellite connection, and a GPS connection.	30. The communication device [of claim 11] wherein the communication device is designed to be used with or without biometrics for authentication and identification, with at least one of a fingerprint recognition, voice recognition, face recognition, hand geometry, retina scan, iris scan, heart rate, pulse or signature, thereby allowing access to the product by authorized, trained, and equipped individuals and preventing access to the product by unauthorized, untrained, and unequipped individuals.
wherein at least one satellite connection, Bluetooth connection, WiFi connection, internet connection, radio frequency (RF) connection, cellular connection, broadband connection, long and short range radio frequency (RF) connection is capable of signal communication with the transmitter and the receiver of the communication device and transceivers of the products;	wherein the communication device is equipped with a biometric lock disabler that incorporates at least one of a fingerprint recognition, voice recognition, face recognition, hand geometry, retina scan, iris scan and signature such that the communication device that is at least one of the cell phone, the smart phone, the desktop, the handheld, the PDA, the laptop or the computer terminal is locked by the biometric lock disabler to prevent unauthorized use;
Cellular data connection: The connection that the Galaxy s6 uses to exchange data over the air using your mobile operator's cellular network. Cellular network connection: The network that the Galaxy s6 uses for making voice and data connections. This network is managed by the mobile operator. WLAN: Wi-Fi 802.11 a/b/g/n/ac, dual-band, Wi-Fi Direct, hotspot. Bluetooth: v4.1, A2DP, LE, apt-X	After several unsuccessful log-in attempts, a Samsung device automatically locks itself up as a security feature. A user is given chances to correctly enter their credentials but they are not that many. If the user is unable to log in to the phone after doing all the available security layers, there's no other option left for the user to do but factory reset. Samsung only allows you to register 4 fingerprints to set-up the fingerprint scanner; a security feature for easy log-in and lock-out. One major feature that Samsung added to its Galaxy line of smartphones was the heart rate monitor. The health-focused technology heart rate sensor is cleverly positioned on the back of the phone and embedded into the same opening as the LED flash.

Cellular data connection: The connection that the Galaxy s6 uses to exchange data over the air using your mobile operator's cellular network connection: The network that the Galaxy s6 uses for making voice and data connections. This network is managed by the mobile operator. WLAN: Wi-Fi 802.11 a/b/g/n/ac, dual-band, Wi-Fi Direct, hotspot. Bluetooth: v4.1, A2DP, LE, apt-X

wherein the only type or types of
communication with the transmitter and the
receiver of the communication device and
transceivers of the products is a type or types
selected from the group consisting of satellite,
Bluetooth, WiFi, internet, radio frequency
(RF), cellular, broadband, and long and short
range radio frequency (RF).

25. The communication device of [claim 11] wherein the communication device has at least one of a Bluetooth connection, a Wi-Fi connection, a short and long range radio frequency connection, a Cellular connection, a satellite connection, and a GPS connection.